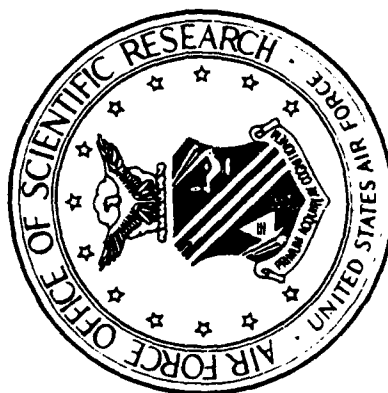


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RESEARCH PROPOSAL
QUARTERLY STATUS REPORT

AD-A214 438



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JULY - SEPTEMBER 1989

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REPORT DOCUMENTATION PAGE

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1. REPORT SECURITY CLASSIFICATION			1b. RESTRICTIVE MARKINGS		
SECURITY CLASSIFICATION AUTHORITY			3. DISTRIBUTION/AVAILABILITY OF REPORT Approved for public release; distribution is unlimited.		
2b. DECLASSIFICATION/DOWNGRADING SCHEDULE					
4. PERFORMING ORGANIZATION REPORT NUMBER(S)			5. MONITORING ORGANIZATION REPORT NUMBER(S) AFOSR-TR-84-1360		
6a. NAME OF PERFORMING ORGANIZATION Air Force Office of Scientific Research		6b. OFFICE SYMBOL (If applicable) XOTD	7a. NAME OF MONITORING ORGANIZATION AFOSR		
6c. ADDRESS (City, State, and ZIP Code) Building 410 Bolling AFB DC 20332-6448			7b. ADDRESS (City, State, and ZIP Code) Building 410 Bolling AFB DC 20332-6448		
8a. NAME OF FUNDING / SPONSORING ORGANIZATION AFOSR		8b. OFFICE SYMBOL (If applicable) XOTD	9. PROCUREMENT INSTRUMENT IDENTIFICATION NUMBER IN-HOUSE		
8c. ADDRESS (City, State, and ZIP Code) Building 410 Bolling AFB DC 20332-6448			10. SOURCE OF FUNDING NUMBERS		
			PROGRAM ELEMENT NO.	PROJECT NO.	TASK NO.
11. TITLE (Include Security Classification) Research Proposal Quarterly Status Report					
12. PERSONAL AUTHOR(S) Debra L. Tyrrell					
13a. TYPE OF REPORT Quarterly		13b. TIME COVERED FROM Jul TO Sep 84		14. DATE OF REPORT (Year, Month, Day) Oct 84	
15. PAGE COUNT					
16. SUPPLEMENTARY NOTATION					
17. COSATI CODES			18. SUBJECT TERMS (Continue on reverse if necessary and identify by block number)		
FIELD	GROUP	SUB-GROUP			
19. ABSTRACT (Continue on reverse if necessary and identify by block number) This research proposal status report is published quarterly as of March, June, September, and December of each year.					
DISTRIBUTION/AVAILABILITY OF ABSTRACT <input checked="" type="checkbox"/> UNCLASSIFIED/UNLIMITED <input type="checkbox"/> SAME AS RPT <input type="checkbox"/> DTIC USERS			21. ABSTRACT SECURITY CLASSIFICATION Unclassified		
22a. NAME OF RESPONSIBLE INDIVIDUAL DEBRA L. TYRRELL			22b. TELEPHONE (Include Area Code) 202-767-912		22c. OFFICE SYMBOL XOTD

RESEARCH PROPOSAL QUARTERLY STATUS REPORT

OCTOBER 1989



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PREPARED BY:
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INTRODUCTION

This Research Proposal Status Report is published quarterly as of March, June, September, and December of each year. It lists all the research proposals received by the Air Force Office of Scientific Research (AFOSR) in the six month period prior to the date of this report. Normally, decisions and actions are made within six months after receiving a research proposal. The action taken (i.e. Initiated, Declined, or Withdrawn) will be listed in this Report. The report is divided into two parts: Part I is the Institution Index which lists the proposals received, alphabetically by institution. Part II is the AFOSR Directorate Index in which the proposals received are listed alphabetically by Directorate and alphabetically by AFOSR Program Manager within the Directorate. Any questions regarding this report, please contact Ms. Debra Tyrrell at (202) 767-4912 or Autovon 297-4912.

PURPOSE

The purpose of the quarterly report is to inform other Government sponsoring agencies of the proposals received by the AFOSR and the action taken on these proposals. Users of the report should read and clearly understand that:

Declined proposals should not necessarily be considered as scientifically unacceptable since many declinations result from a lack of funds or from special programmatic emphasis.

AFOSR MISSION

The Air Force Office of Scientific Research (AFOSR) is the single manager of the Air Force Defense Research Sciences Program (Program Element 61102F) and the primary Air Force agency for the extramural support of fundamental scientific research. The AFOSR is organized under the Director of Laboratories, Air Force Systems Command.

AFOSR awards grants and contracts for research in areas of science relevant to the needs of the Air Force. Research is selected for support from unsolicited proposals originating from scientists investigating problems, involving the search for new knowledge and the expansion of scientific principles. Selection is on the basis of scientific potential for improving Air Force operational capabilities, originality, significance to science, the qualification of the principal investigators, and the reasonableness of the proposed budget.

KEY TO READING THE DATA

TITLE - The title of the research proposal

INSTITUTION - The organization, i.e., College/University, Company, etc., at which the research will be conducted.

INVESTIGATOR - The Principal Investigators proposing the research.

TYPE - N indicates a new research effort.

- R indicates a continuation of an ongoing research effort.

MONTHS - The duration of the research proposal.

RECEIVED - The month and year in which the AFOSR received the proposal.

AMOUNT - The funds requested of the AFOSR for support of the research proposal.

STATUS - A = ACCEPTED indicates that the review has been completed and the proposal recommended for funding.

- D = DECLINED indicates the proposal has been reviewed but will not be funded by the AFOSR.

- BLANK SPACE = Indicates the proposal is being reviewed.

- W = WITHDRAWN indicates that the proposal submitted was removed from further consideration at the proposers request.

PROGRAM MANAGER - The AFOSR scientific staff member assigned the responsibility for the technical evaluation of the proposal.

PROPOSAL # - An AFOSR Directorate assigned control number to uniquely identify the research proposal.

INITIATED - The proposal has been recommended to the AFOSR Directorate of Contracts for the amount and duration.

START DATE - The recommended date for commencement of the research.

TOTAL AMOUNT - The estimated number of dollars recommended for support of the research effort; the actual amount is subject to negotiation.

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BOLLING AIR FORCE BASE, DC 20332

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Prog Mgr Dr Spencer Wu	6962
Prog Mgr Dr Julian Tishkoff	0465
Prog Mgr Dr James McMichael	4936
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Prog Mgr Cap Henry Helin	0471

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Prog Mgr Lt Col Larry W Burggraf	4960
Prog Mgr Lt Col Larry P. Davis	4963
Prog Mgr Dr Donald Ulrich	4963
Prog Mgr Dr Anthony Matuszko	4963
Prog Mgr Dr Francis Wodarczyk	4963

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Prog Mgr Dr Liselotte Schioler	4933

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Prog Mgr Dr Robert Barker	5011
Prog Mgr Dr Howard Schlossberg	4906
Prog Mgr Dr. Henry R. Radoski	4906

PART I

REPORT DATE 10/11/89

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AIR FORCE OFFICE OF SCIENTIFIC RESEARCH

STATUS -- 'A' = ACCEPTED, 'D' = DECLINED, 'W' = WITHDRAWN

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPCAL	STATUS	PM NAME
	LAST NAME					
AIR FORCE WEAPONS LAB	BERNETTE	HOWARD	W	89-NP-246	A	KELLEY
	BURNETTE	HOWARD		89-NM-690	A	NACHMAN
	KURTH	ALLEN	E	89-NE-410	A	SCHICLER
	REDDY	9.	R	89-NC-409		ULRICH
ALABAMA A&M UNIVERSITY	BLUQUIN	SCOTT	F	89-NA-413	A	BOYCE
APPLIED RESEARCH ASSOCIATES INC	KOURIS	DEMITRIS	A	89-NA-424		HARITOS
ARIZONA STATE UNIVERSITY	NEITZEL	G	P	89-NA-353		SAKELL
	RALPH	GREGORY	B	89-NE-388		SCHICLER
	REED	HELEN	L	89-NA-372		MCMICHAEL
	SARIC	WILLIAM	S	89-NA-429	A	MCMICHAEL
ARMED FORCES INSTITUTE OF PATHOLOGY	TSAKALIS	KONSTANTINOS	S	89-NM-696		CROWLEY
ARMY RESEARCH OFFICE	HARRISON	CHARLES	M	89-NL-303	A	CEOVENY
BATTLE COLUMBUS LABS	THROKPOKATIN	HODGE		89-XO-028	A	CAVENDER
BATTLE PACIFIC NORTHWEST LABORATORIES	MELLING	PETER	J	89-NC-316		ULRICH
CELLCORE	ALPESPECTOR	MARK		89-NC-368		ULRICH
		JOSHUA		89-NE-324	A	GILES
				89-NE-408	A	CRAIG
BEN-GURION UNIVERSITY OF THE NEGEV	TZELGOV	JOSEPH		89-NL-285		FREGLY
BIO-PHYSICAL SOCIETY	EISENMAN	GEORGE		89-NL-283		BERRY
BOEING CO	LUMMAN	THOMAS		89-NC-342		ULRICH
BOSTON UNIVERSITY	CROSSBERG	STEVEN		89-NM-699	A	WAKSMAN
	LEMPICKI	ALEXANDER		89-NE-345		CRAIG
BOWLING GREEN STATE UNIVERSITY	BOLGHTON	ROBERT	I	89-NE-363		ROSENSTEIN
BRANDEIS UNIVERSITY	FOXMAN	BRUCE	M	89-NC-420		ULRICH
BROOKHAVEN NATIONAL LABORATORY	CERBONE	RALPH	J	89-XO-032	A	CAVENDER
BROWN UNIVERSITY	ADAMS	MARILYN	J	89-NL-284		FREGLY
	LAWANCY	N. M.		89-NP-211		SCHLOSSBER
	MORSE	T. F.		89-NP-213	A	SCHLOSSBER
BUSINESS & TECHNOLOGICAL SYSTEMS, INC.	LARIMORE	WALLACE	E	89-NM-665		NACHMAN
CALIFORNIA INSTITUTE OF TECHNOLOGY	SOCOMAN	RODNEY	M	89-NE-311	A	GILES
	GRUBBS	ROBERT	H	89-NC-365		ULRICH
	MCGILL	T	C	89-NE-348		LITTON
	YARIV	AMNON		89-NE-336		GILES
CAMBRIDGE UNIVERSITY (TRUMPINGTON ST)	STRONGE	W	J	89-NA-349		HARITOS
CARNEGIE-MELLON UNIVERSITY	CURTIN	MORTON	E	89-NM-660		NACHMAN
	HAMMACK	WILLIAM	S	89-NC-308		WILKES
CASE WESTERN RESERVE UNIVERSITY	PEKE	DONALD	L	89-NE-378		SCHICLER
	LANDO	JEROME	B	89-NC-372		ULRICH
	MCET	ABDELSAMIE		89-NC-412		ULRICH
CATHOLIC UNIVERSITY OF AMERICA	HERAN	MARK	J	89-NA-409		HARITOS
	USERALL	H		89-NC-347		STOBIE
CITY COLLEGE - CUNY	ALFANO	ROBERT	R	89-NC-408		ULRICH
	DELALE	FERIQUIN	B	89-NA-422		HARITOS
CLAREMONT GRADUATE SCHOOL	CUMBERBATCH	ELLIS	H	89-NC-395		NACHMAN
CLARK COLLEGE	MARIAM	YITSAREK		89-NE-335		ULRICH
CLARKSON UNIVERSITY	ARAJIS	SIGURDS		89-NE-335		WEINSTOCK
	CAMPBELL	GREGORY	A	89-NC-399		ULRICH
	LEE	JONG	S	89-NA-398		HARITOS

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STATUS - 'A' = ACCEPTED, 'D' = DECLINED, 'W' = WITHDRAWN

INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
CLEMSON UNIVERSITY	YUGARTIS	STEVEN		W	89-NE-390		SCHICLER
	ACMS	WARREN		P	89-NM-668		GLASSMAN
	ELLISON	MICHAEL	S		89-NC-384		ULRICH
	GRIJICIC	MICA			89-NE-369		ROSENSTEIN
COLORADO SCHCOL OF MINES	OGALE	AMOD	A		89-NC-394		ULRICH
	REIDY	DENNIS	W		89-NE-401		SCHICLER
	RACFORD	DONALD	W		89-NA-404		HARITOS
	ZOLHI	R.			89-NE-338		WEINSTOCK
COLORADO STATE UNIVERSITY	DOHER	BARBARA			89-NL-295	D	FREGLY
	GAUDNER	DANIEL			89-NL-290		BERRY
	KRUSILS	J	P		89-NE-312		WITT
	NA'ION	JCHN	A		89-NP-216		BARKER
COLUMBIA UNIVERSITY	PA PIA	J.	M		89-NE-409	A	WEINSTOCK
	RAI	RISHI			89-NE-313	A	ROSENSTEIN
	IANELLO	VICTOR			89-NE-316	A	WEINSTOCK
	STCHS	SIDNEY	J		89-NL-323		CERVENY
CORNELL UNIVERSITY	BAXER	IAN			89-NE-367		ROSENSTEIN
	GEWIN (LANL)	RICHARD	A		89-NP-214	A	KELLEY
	APELIAN	DIRAN			89-NE-397		ROSENSTEIN
	DIVARDO	N.	J		89-NC-407		ULRICH
CREARE INC. RESEARCH & DEVELOPMENT INC	WATIS	A	S		89-NA-367		HARITOS
	JACOBS	ALBERT	S		89-NA-414		HARITOS
	OUROVIC	TIMOTHY	L		89-NA-421		HARITOS
	PALMER	RASKO	P		89-NA-402		ULRICH
CREIGHTON UNIVERSITY	FAURIE	RICHARD	A		89-NC-396		ULRICH
	MIN	JEAN-PIERRE	S		89-NE-351	A	LITTON
	KCPRIVA	KWANG			89-XO-040	A	CAVENDER
	FINKBEINER	DAVIX	L		89-AM-688	W	NACHMAN
CARTMOUTH COLLEGE	LLIB	HERMAN	K		89-NC-381		MATUSZKO
	HANEYCHUCK	TERRY	V		89-NC-354	A	MATUSZKO
	NASH	ROBERT	G		89-NC-418		ULRICH
	FALK	STEPHEN	E		89-NM-680		GLASSMAN
DEPT OF ENERGY - ALBUQUERQUE OPER OFFICE	GARRIS	JAMES	A		89-NM-661		GLASSMAN
	NCCR	CHARLES	K		89-NA-427	A	HELIN
	DE LEVIE	AMOD			89-NA-362		AMOS
	DE LEVIE	ROBERT			89-NE-337		ROSENSTEIN
EMERSON UNIVERSITY	CUTRAMBONE	ROBERT			89-NE-377		ROSENSTEIN
	WESERFELD	RICHARD			89-NL-305		FREGLY
	FCX	KURT			89-NE-341	D	WEINSTOCK
	CALPO	RCNALL	F		89-NE-350		WEINSTOCK
FLORIDA STATE UNIVERSITY	WHALEN	TIMOTHY	E		89-NM-692		NACHMAN
	BAINUM	DOUGLAS	M		89-AP-245		KELLEY
	RABBIT	PETER	M		89-NL-308		FREGLY
	VARCI	JCHN	F		89-NA-349	A	HARITOS
GEORGETOWN UNIVERSITY	COLLAR	MOSHE	Y		89-NC-417		ULRICH
	NEWAZ	MAREK			89-NM-678		WAKSMAN
	GEORCIA INSTITUTE OF TECH	GCLAM	M		89-NE-373		ROSENSTEIN
	ILLINOIS INSTITUTE OF TECHNOLOGY				89-NA-405		HARITOS

STATUS - 'A' = ACCEPTED, 'D' = DECLINED, 'W' = WITHDRAWN

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
INDIANA UNIVERSITY-PURDUE UNIV AT INCLPIS	SANIE	JAFAR		89-NE-372		SCHIOLER
	SCIAMPARELLA	CESAR	A	89-NA-397		HARITOS
	AFCLABI	DARE		89-NA-377		AMOS
INST. OF ELECTRICAL & ELECTRONICS ENGRS	RASMUSSEN	JEFFREY	L	89-NM-658		BAROUCH
INSTITUTE FOR PERCEPTION RVO-TNO	CGUTTS	TIMOTHY	J	89-NE-340		CRAIG
INTERNATIONAL NEURAL NETWORK SOCIETY	WERTHEIM	A	H	89-NL-292		TANGNEY
IOWA STATE UNIV OF SCIENCE AND TECH	SZL	HAROLD	S	89-NE-332	A	GILES
	CHUMBLEY	LEONARD	T	89-NE-389		ROSENSTEIN
	DAYAL	H.		89-NM-666		BAROUCH
	MARTIN	VINAY		89-NC-355		ULRICH
J. K. RESEARCH	COMBIE	STEVE	W	89-NC-415		ULRICH
JACKSONVILLE STATE UNIVERSITY	SPECTOR	JOAN	L	89-NL-321		CERVENY
	SPECTOR	JONATHAN	L	89-XO-043	A	CAVENDER
JET PROPULSION LABORATORY	CHUTJIAN	ARA	R	89-XO-026	A	CAVENDER
	HARDER	SETH	K	89-NP-222		KELLEY
	SRIIVASTAVA	SANTOSH		89-NC-353		ULRICH
JOHNS HOPKINS UNIVERSITY	THAKOOR	A.P.		89-NP-227	A	KELLEY
	BARGERON	C.B.		89-NE-320	A	GILES
	EGETH	HOWARD	E	89-NE-417		SCHIOLER
KANSAS STATE UNIVERSITY	SCRENSSEN	CHRISTOPHER	M	89-NL-289		FREGLY
KRALL ASSOCIATES	KRALL	NICHOLAS	A	89-NC-410		ULRICH
LA JOLLA INSTITUTE	STEFAN	VLAODISLAV		89-NP-231		BARKER
LAWRENCE BERKELEY LABORATORY	ATTWOOD	DAVID		89-NP-244		BARKER
	LEUNG	KA-NGO		89-NP-240	A	SCHLOSSER
LAWRENCE LIVERMORE LAB (CALIF UNIV)	HISKES	JOHN	R	89-NP-225	A	KELLY
	VOLOSHIN	APKADY		89-NP-226	A	KELLEY
LEHIGH UNIVERSITY	AIN	CHERYL	J	89-NP-239	A	KELLEY
LOS ALAMOS SCIENTIFIC LAB (CALIF UNIV)	DOWELL	F		89-NA-407		HARITOS
	GUTOWITZ	HOWARD		89-NL-316		FREGLY
	SINEX	DONAL	G	89-NC-338		DAVIS
LOS ALAMOS TECHNICAL ASSOCIATES INC	DOWELL	F.		89-NE-321		GILES
LOUISIANA STATE UNIVERSITY	GRIFFIN	GREGORY	L	89-NL-298		TANGNEY
	JONES	BUSH		89-NC-346	W	DAVIS
	TEMPLE	DOYLE	A	89-NF-366		SCHIOLER
	VCIACJIS	G	Z	89-NM-715		WAKSMAN
MARQUETTE UNIVERSITY	GUASTELLO	STEPHEN	J	89-NE-400		SCHIOLER
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	DRESSLHAUS	MILDRED	S	89-NA-368		HARITOS
	EPSTEIN	ALAN	H	89-NL-300		TANGNEY
	FREUND	ROBERT	M	89-NE-344	A	WEINSTOCK
	HASTINGS	DANIEL	E	89-XO-033	A	CAVENDER
JCANNOPULOS	JOHN	JOHN	D	89-NM-693	A	HELIN
KING	ROBERT	ROBERT	W	89-NA-359	A	GLASSMAN
LEE	MIN-CHANG	MIN-CHANG		89-NM-693		BIRKAN
LI	VICTOR	VICTOR	C	89-NA-425	A	LITTON
MCCUNE	JAMES	JAMES	E	89-NF-331		PERRIZO
				89-NP-233		BARKER
				89-NP-242		WU
				89-NA-373		HELIN
				89-NA-356	A	

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INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
MATERIALS RESEARCH SOCIETY	ORLIN	JAMES	B	89-NM-703	A	GLASSMAN	
	TECRUM	PAUL	M	89-NE-352	A	WEINSTOCK	
	THOMPSON	CARL	V	89-XO-035	A	CAVENDER	
	WCLFE	JEREMY	M	89-NE-349		LITTON	
	WURTMAN	RICHARD	J	89-NL-304		FREGLY	
	WALLANCE	JOHN	B	89-NL-324		BERRY	
				89-NE-346		LITTON	
				89-NE-347		LITTON	
MICHIGAN STATE UNIVERSITY	CLARK	DAVID	E	89-NC-421		ULRICH	
	KANADIDIS	MERCOURI	G	89-NC-387		ULRICH	
	KHALIL	HASSAN	K	89-NM-671	D	ULRICH	
	MANDELL	JOHN	F	89-NM-415		ULRICH	
MONTANA STATE UNIVERSITY	OUTLAH	R	A	89-NC-344	A	WATKINS	
	AJELLO	JOSEPH	M	89-NP-224	A	BURGRAF	
	WANDER	STEVE		89-NA-343	A	KELL	
	MILBURN	G. M. W.	S	89-NC-321	A	SAKELL	
NADLER POLYTECHNIC OF EDINBURGH	LENS	ROBERT		89-NP-237		ULRICH	
				89-NP-239		PERRIZO	
				89-XO-042	A	ROBISON	
				89-NL-320	A	FREGLY	
NATIONAL CENTER FOR ATMOSPHERIC RESEARCH	VAN COTT	HAROLD	R	89-NA-357	A	MCMICHAEL	
	HERRING	JACKSON	T	89-NM-674	A	GLASSMAN	
	BEGGS	PAUL	W	89-NE-358	A	SCHICLER	
	HASTIE	JOHN	S	89-NP-220	A	KELLEY	
NAVAL POST GRADUATE SCHOOL	JULIENNE	PAUL	S	89-NP-212	A	KELLEY	
	LUCATORTO	THOMAS	B	89-NA-426	A	MELIN	
	CHANDRASEKHARA	M	S	89-NE-354	D	LITTON	
	NGAI	K.	L	89-NC-333		GILES	
NAVAL RESEARCH LABORATORY	SZL	HAROLD		89-NC-406		ULRICH	
	GREBEL	HAIM		89-NA-365	C	AMOS	
	LEL	MING		89-NE-407		ROSENSTEIN	
	A. MISRA	DURGAMADHAB MIS	R	89-NL-301		BERRY	
NEW YORK ACADEMY OF SCIENCES	RLBIN	EWANUEL	F	89-NE-398		SCHICLER	
	CORCARO	JAMES	E	89-NE-382		SCHICLER	
	MCPALE	ANNA	R	89-NE-361		WITT	
	ALFANO	ROBERT	V	89-NM-686	A	NACHMAN	
NEW YORK UNIVERSITY	KCFN	ROBERT		89-NA-390		SAKELL	
	NIXON	DAVID		89-NC-405		ULRICH	
	SALAMI	M. RESZ		89-XO-036	A	CAVENDER	
	KHEFFETS	ARKADY	J	89-NA-381		CROWLEY	
NIELSEN ENGINEERING AND RESEARCH CO	O'GRADY	PETER	R	89-NC-403		ULRICH	
	BOUDOUK	PHILIP		89-NA-389		HARITOS	
	YAZDANI	FRANK	J	89-NM-683		NACHMAN	
	DEVANEY	ANTHONY	B	89-NE-397		ROSENSTEIN	
NORTH CAROLINA A&T STATE UNIVERSITY	WOLAK	MELVILLE	J	89-NE-309		GILES	
	WILLIAMS	RONALD		89-NA-388		HAPITOS	
	BLOOM	FREDERICK		89-NC-367		ULRICH	
	LIN	CHIHU-TSU	W	89-NC-361		ULRICH	
NORTH DAKOTA STATE UNIVERSITY	SPANGLER	CHARLES					
NORTHEASTERN UNIVERSITY							
NORTHERN ILLINOIS UNIVERSITY							

INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPCAL	STATUS	PM NAME
NORTHWESTERN UNIVERSITY	BAZANT	ZDENEK	P	89-NA-420			HAPITOS
	BELYTSCHKO	PROFESSOR	T	39-NA-354		D	AMCS
	HAODAC	ABRAHAM	H	89-NM-712			CROWLEY
	MARKS	TCBIN	J	89-NC-319		A	DAVIS
OFFICE OF NAVAL RESEARCH	LAU	CLIFF		89-NE-327		A	GILES
	O'FARRE	JCHN	J	89-NL-315			TANGNEY
	CZEKAJ	CORINNA	L	89-NC-397			ULPICH
	LEEN	TCDD		89-NE-334			GILES
OKLAHOMA STATE UNIVERSITY	GLAZER	MIKE		89-NC-323			ULRICH
	WARREN, JR	WALTER	R	89-NC-329		A	WODARCZYK
	AGRAWAL	DINESH	K	89-NC-331			ULPICH
	BARLOW	JESSE		89-AM-702			HOLLAND
PENNSYLVANIA STATE UNIVERSITY	BIANCONI	PATRICIA	A	89-NC-309			MATUSZK
	HAPN	H	T	89-NA-345			HAPITOS
	POTHEN	ALEX		89-NM-713			NACHMAN
	SANTAVICCA	OCMENIC	A	89-NA-355		A	TISHKOFF
PORTLAND STATE UNIVERSITY	SANTORO	ROBERT	J	89-NA-383		A	TISHKOFF
	LEUNG	PUI-TAK		39-NE-353			LITTON
	ORSZAG	STEVEN	A	89-NA-393		A	MCMICHAEL
	RATITZ	HERSCHEL		89-NC-325		A	DAVIS
PRINCETON UNIVERSITY	ATALLAH	MIKHAIL		89-NM-682		A	GLASSMAN
	MUCKAM	OSITA		89-NA-378			AMCS
	PRACCTCR	ROBERT		89-NL-306			FREGLY
	RICE	JCHN	R	89-NM-709			HOLLAND
PURDUE RESEARCH FOUNDATION	PAYDAP	NASSER		39-NA-370		D	AMCS
	VITERBI	ANDREW	J	89-NM-698		A	NACHMAN
	COLE	JULIAN	D	89-NM-657		A	NACHMAN
	KRAUSE	SONJA	F	89-NC-352		D	DAVIS
RICE UNIVERSITY	MCCONALD	JOHN		39-NC-339			DAVIS
	MITCHELL	JCHN	E	89-NM-708			GLASSMAN
	WOZNY	MICHAEL		89-NA-382			CROWLEY
	ARMENIADES	CONSTANTINE	D	89-NC-379			ULRICH
ROYAL HOLLOWAY & BEDFORD NEW COLLEGE	MARGRAVE	JOHN	L	89-NE-391			ROSENSTEIN
	SALERGREY	ROLAND		89-AC-371			ULRICH
	MEYES	D. M.		89-NC-320			DAVIS
	LEBOWITZ	JOEL	L	89-NP-210		A	GARKER
RUTGERS - THE STATE UNIVERSITY	MURDOCCA	MILES		89-NE-322			GILES
	PAE	K	D	89-NC-366			ULRICH
	ECKSTROM	DNALC	J	89-NP-241			BARKER
	HUESTIS	DAVID	L	89-NA-387		A	TISHKOFF
UTAH INTERNATIONAL	MACDONALD	D		89-AC-317			WILKES
	NARAYN	SUBHASH	C	89-NC-416			MATUSZK
	POLNO	BRUCE	G	89-NE-343			ROSENSTEIN
	SLANGER	TOM	G	89-NC-311			WODARCZYK
SOCIETY FOR INDUSTRIAL & APPLIED MATH	BLUCK	I.		89-NM-689		A	GLASSMAN
	HU	C.L.J.		89-NE-414			CRAIG
	MIFSHAMS	A. REZA		89-NE-385			ROSENSTEIN
	BRADSHAW	PETER		39-NA-360		A	SAKELL

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INSTITUTION

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
STATE UNIVERSITY OF NEW YORK	LAST NAME	ARTHUR	R	89-NA-376		AMOS
	CHAPMAN	DEAN		89-NA-391		SAKELL
	FEJER	MARTIN	M	89-NP-218		SCHLOSSBER
	HARRIS	STEPHEN	E	89-NP-228		SCHLOSSBER
	KAILATH	THOMAS		89-NM-679	A	NACHMAN
	ROBERTS	LEONARD		89-NA-386		HELIN
	ROSS	JCHN		89-NC-358	A	CAVIS
	L. CHUNG	DERORAH	D	89-NE-406		SCHIOLER
	ASPGRIZ	NASSER		89-NA-369	D	TISHKOFF
	CHAKI	TARUN	K	89-NE-364		ROSENSTEIN
	CHEN	Y	M	89-NM-649		NACHMAN
	CHIANG	FL-PEN		89-NA-401		HARITOS
	GEORGE	THOMAS	F	89-NC-332		DAVIS
	HARRIS	STEWART	M	89-NE-362		ROSENSTEIN
	KUSHNER	ALAN	S	89-NA-419		HARITOS
	PITMAN	E. BRUCE		89-NA-652	A	NACHMAN
	PRASAC	PARAS	N	89-NC-327		DAVIS
	DAVIS	ELIZABETH	T	89-NL-310		TANGNEY
	WHITTAKER	EDWARD	A	89-NE-404		SCHIOLER
STATE UNIVERSITY OF NEW YORK - RSCH FCN STEVENS INSTITUTE OF TECHNOLOGY SYRACUSE UNIVERSITY	DOCKEN	PETER	A	89-NE-370		ROSENSTEIN
	LEVY	ALAN	J	89-NA-419		HARITOS
	LIL	HAD-WEN		89-NA-408		HARITOS
	MANDEL	JAMES	A	89-NA-400		HARITOS
	SPENCER	JAMES	T	89-NE-384		HARITOS
	WEINER	DONALD	D	89-NE-392		SCHICLER
	KUNISCH	KARL		89-NC-030	A	ROSENSTEIN
	LEFKOVITZ	DAVID		89-XO-046	A	CAVENDER
	HCV	DARRELL	E.	89-NM-710		CROWLEY
	MARONGIU	M	J	89-NE-374		HOLLAND
	JAYASUPIYA	SUMADA		89-NA-394		ROSENSTEIN
	JUNKINS	SUDHADA		89-NA-352		HELIN
	MARTIN	JOHN		89-NA-363		HELIN
	CHARLES	CHARLES	R	89-NA-347		AMOS
	ZERDA	TADEUSZ		89-NC-357		AMOS
	ZIEHER	KLAUS	W	89-NC-363	W	WILKES
	NICOLAIDES	C. A.	W	89-NC-369		WILKES
	ADELSON	BETH		89-NP-219		ULRICH
	RYCER, JR.	DANIEL	F	89-NC-362	D	PARKER
TEXAS A AND M UNIVERSITY	SUING	NAKHO		89-NM-685	C	DAVIS
	AGLAN	HERSHMAT		89-NE-399		WAKSMAN
	PACIOREK	K		89-NC-375		SCHICLER
	BAIRD	JAMES	L	89-NC-388		ULRICH
	BIGGS	ALBERT	K	89-NC-326		ULRICH
	GRAY	GARY	W	89-NC-376		MATUSZKO
			M	89-XO-031	A	ULRICH
				89-NC-401		CAVENDER
						ULRICH
TEXAS CHRISTIAN UNIVERSITY						
TEXAS TECH UNIVERSITY						
THEORETICAL & PHYSICAL CHEMISTRY INST TUFTS UNIVERSITY						
TUSKEGEE INSTITUTE ULTRASYSYSTEMS INC UNIV OF ALABAMA						

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INSTITUTION	LAST NAME	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
UNIV OF ALASKA UNIV OF ARIZONA	MCWALUS		SAMUEL	P	89-NC-400		ULRICH
	TEMPOROWSKI		PHILIP		89-NL-319		TANGNEY
	GIMBEL		JCHN	G	89-NM-676	A	GLASSMAN
	FALCO		C-ARLES	M	89-NP-234	A	SCHLOSSBER
	GIPSON		URSULA	J	89-XO-034	A	CAVENDER
	KICUSIS		PANOS	D	89-NA-374		BOYCE
	NEWELL		ALAN	C	89-NM-687	A	NACHMAN
	SHAKEL		MOSHE		89-NM-697		BARDOUCH
	SIPES		GLENN		89-NL-322		CERVENY
	WYGNANSKI		ISRAEL	J	89-NA-354	A	MCMICHAEL
UNIV OF ARKANSAS UNIV OF ARKANSAS/PINE BLUFF UNIV OF CALIFORNIA	ULRICH		RICHARD	K	89-NE-368		SCHIDLER
	CHOWDHURY		ASLAM	H	89-NC-391		ULRICH
	CRUNKER		NANCY	U	89-XO-037	A	CAVENDER
	SCHMIT		LUCIEN	J	89-NA-379	D	AMOS
	FEHER		FRANK	A	89-NC-334		MATUSZKO
	FOOTE		STEPHEN	L	89-NL-317		BERRY
	GEOFFRION		ARTHUR	M	89-NM-673		GLASSMAN
	HEGER		ALAN	J	89-NC-322		ULRICH
	HESS		RONALD	A	89-NM-584	D	CROWLEY
	HU		CHENMING	E	89-NE-330		WITT
UNIV OF CALIFORNIA, SAN DIEGO	KCHLER		BRYANE		89-NC-398		ULRICH
	LAPERGE		DAVID		89-NL-299		FREGLY
	MACKENZIE		J	D	89-NC-373		ULRICH
	MCCRE		C. BRADLEY	C	89-NC-340	A	WODARCZYK
	MORSE		EDWARD	M	89-NP-230		KELLEY
	NEUMARK		DANIEL	O	89-NC-333		DAVIS
	RITCHIE		ROBERT	W	89-NE-412		ROSENSTEIN
	SCOTT		GARY	A	89-NC-414	A	ULRICH
	SIRIGNANO		WILLIAM	M	89-NA-350		TISHKOFF
	SMITH		PAUL		89-NC-349		ULRICH
UNIV OF CENTRAL FLORIDA UNIV OF CHICAGO UNIV OF CINCINNATI	TREISMAN		ANNE	C	89-NL-297		FREGLY
	ZERA		FRANCISCO		89-NE-383		ROSENSTEIN
	GUEST		CLARK	G	89-NE-342		CRAIG
	NOVIKOV		EVGENY	F	89-NM-675		NACHMAN
	HEINONEN		OLLE	N	89-NC-390	A	ULRICH
	DUPONT		TODD	K	89-NM-653		NACHMAN
	GHA		KIRTI	J	89-NA-384		HELIN
	POLLACK		STEVEN	K	89-NC-393		ULRICH
	RCE		R	A	89-NC-392		ULRICH
	SEKHAR		JAI	S	89-NE-371	D	ROSENSTEIN
UNIV OF COLORADO	BARNES		FRANK		89-NE-357		WEINSTOCK
	FACHLICH		RCD	R	89-NC-328		STORIE
	HAMMOND		KENNETH	R	89-NL-309		FREGLY
	LEONE		STEPHEN	I	89-NE-317		LITTON
	PANKOVE		JACQUES	I	89-NE-326		GILES
	WAGNER		KELVIN	M	89-NE-355		CP445
	GALLIGAN		JAMES	A	89-NE-402		SCHIDLER
	OTTER		FRED		89-NP-381		ROSENSTEIN

UNIV OF CONNECTICUT

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
UNIV OF DAYTON	YANEY	PERRY	P	89-XD-050	A	CAVENDER
UNIV OF DENVER	CCOMBE	ROBERT	D	89-NC-336		WODARCZYK
	GILBERT	JULANNA	V	89-NC-337		WODARCZYK
UNIV OF FLORIDA	HENSHAW	THOMAS	L	89-XD-041	A	CAVENDER
	BARTLETT	RODNEY	J	89-NC-314		DAVIS
				89-NP-223	A	KELLEY
	OHEN	YNGVE		89-NC-312		DAVIS
UNIV OF GEORGIA	SEIBERLING	L	E	89-NC-359		BURGGRAB
UNIV OF HOUSTON	LEE	M. HOWARD		89-NE-315		LITTON
	C HSU	THOMAS	T	89-NA-385		WU
	RAVI-CHANGAR	KRISHNASWAMY		89-NA-406		HARITOS
	SU	W	P	89-NC-318		DAVIS
UNIV OF ILLINOIS	ACRIAN	RONALD	J	89-NA-371		MCMICHAEL
	CARROLL	ROBERT		89-NM-667		NACHMAN
	DONCHIN	EMANUEL	W	89-NL-302	A	FREGLY
	LIU	JANE	E	89-NM-669		WAKSMAN
	VAN VALKENBURG	M.		89-NE-339		CRAIG
	W CHYER III	THOMAS	A	89-XD-029	A	CAVENDER
				89-XC-047	A	CAVENDER
	RETHWISCH	DAVID	G	89-NE-393		ROSENSTEIN
UNIV OF IOWA	SHENOY	PRAKASH	P	89-NM-651		WAKSMAN
UNIV OF KANSAS	FIDY	MICHAEL	A	89-NC-399		ULRICH
UNIV OF LOWELL	UNERTL	WILLIAM	N	89-NC-380		ULPICH
UNIV OF MAINE	KANAL	LAVEEN	N	89-NE-318		GILES
UNIV OF MARYLAND	YANG	JACKSON C	S	89-NA-358		BOYCE
UNIV OF MARYLAND, BALTIMORE CAMPUS	CARTER	GARY	M	89-NC-374		ULRICH
UNIV OF MASSACHUSETTS	RAYNER	KEITH	A	89-NL-312	A	FREGLY
	ROSENBAUM	DAVID		89-NL-296		FREGLY
UNIV OF MICHIGAN	JAIN	RAJESH		89-NM-716		WAKSMAN
	KORNBUM	SYLVAN	M	89-NL-311	A	FREGLY
	MEERKOV	SEMYON	S	89-NM-695	D	CROWLEY
UNIV OF MINNESOTA	BATES	FRANK		89-NC-356		ULRICH
				89-NC-360	M	ULRICH
	HSIAD	C	C	89-NA-380		HARITOS
	LEE	E.	B	89-NM-717		CROWLEY
	LOCHE	TIMOTHY	P	89-NC-378		ULRICH
UNIV OF MISSOURI	SHRAGOWITZ	EUGENE		89-NM-672		GLASSMAN
	SCHLES	C. QUINTON		89-NE-396		ROSENSTEIN
	DEFACIO	BRIAN		89-NM-714		NACHMAN
	EL-GIZAWY	AHMED SHERIF	Q	89-NE-395		ROSENSTEIN
	JACOBS	MARC	N	89-XC-049	A	CAVENDER
	RAMAMAN	MCHAMED		89-NE-405		SCHIOLER
UNIV OF NEBRASKA	SCHMITT	JOHN	L	89-NC-385		ULRICH
UNIV OF NEVADA	NEGABHAN	MEHRAD		89-NA-399		HARITOS
	HALLETT	JOHN		89-NC-320		STOBIE
UNIV OF NEW MEXICO	HARRINGTON	THOMAS		89-NL-314		TANGVEY
	BEIV	THOMAS		89-NC-402		ULRICH
				89-NC-419		ULRICH

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INSTITUTION	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
UNIV OF NORTH CAROLINA	DIELS	JEAN-CLAUDE		89-NP-217		SCHLOSSER
	GALVEZ	MIGUEL		89-NP-229		BARKER
	JL	FREDERICK	D	89-NP-243		BARKER
	ROSS	TIMOTHY	J	89-NA-344		WU
	TRUMAN	C RANCALL		89-NA-414		HARITOS
	WALTERS	EDWARD	A	89-NA-428		MCMICHAEL
	WEISER	MARTIN	W	89-NC-335		DAVIS
	MICHALEWICZ	ZIGNIEW		89-NE-403		SCHIDLER
				89-NM-705		WAKSMAN
				89-NM-706		GLASSMAN
UNIV OF NOTRE DAME	TOLLE	JON	W	89-NM-681	A	GLASSMAN
	WIGHTMAN	MARK	R	89-NL-297		BERRY
	MILLER	ALBERT	E	89-NE-376		SCHIDLER
	KHAN	AKHTAR	S	89-NE-386		SCHIDLER
	DYKE	THOMAS	R	89-NC-341		WOODARCZYK
	MOSSBERG	THOMAS	W	89-NC-411		ULRICH
	ANADALINGAM	G.		89-NM-655		GLASSMAN
	KASSAM	SALEEM	A	89-NM-664	A	BARDOUCH
	FALK	JOEL		89-NC-385		ULRICH
	HALL	CHARLES	A	89-NM-656	A	NACHMAN
UNIV OF PUERTO RICO	PCST	ALBERT	J	89-NC-413		ULRICH
	ALEMAR	JOSE	M	89-NE-379		ROSENSTEIN
	MAZUMDAR	PRANAB	K	89-NA-423		HARITOS
	KUMARESAN	RAMDAS		89-NM-659		BARDOUCH
	TAGGART	DAVID	G	89-NA-412		HARITOS
	GUEST	MARTIN	A	89-NM-694	C	CRIMLEY
	HAYDOE	MARY	M	89-AL-291		TANGNEY
	MELISSINOS	ADRIAN	C	89-NP-221	A	BARKER
	WENGLER	MICHAEL	J	89-NE-413		WEINSTOCK
	LYACH	JAMES	D	89-NA-410		HARITOS
UNIV OF SOUTH CAROLINA	SANDOCKI	THOMAS		89-AL-307		FREGLY
	CHENG	HSIEN	K	89-NA-392		SAKELL
	MACHUKAR	ANUPAM		89-NE-329	A	LITTON
	MUNTZ	E. P.		89-NC-350		WOODARCZYK
	MCCURDY	ALAN	H	89-NP-215		BARKER
	MUTCHLER	DAVID		89-NA-701		WAKSMAN
	MCCAY	T.	D	89-NE-380		ROSENSTEIN
	CHAN	WEN	S	89-NA-417		HARITOS
	FERRARIS	JCHN	P	89-NC-383		ULRICH
	JOSHI	SHYI	P	89-NA-411		HARITOS
UNIV OF TENNESSEE	LAGOW	RICHARD	J	89-NC-343	A	MATUSZKO
	LIECHTI	K	M	89-NA-375		HARITOS
	PANNELL	KEITH	H	89-NC-382		ULRICH
	VARMA	SHAILOPOA	K	89-NE-375		ROSENSTEIN
	GRGW	RICHARD	W	89-NP-232		BARKER
	STRINGFELLOW	GERALD	B	89-NE-359		LITTON
	DOUGSTON	KURT	E	89-NM-707	A	NACHMAN
	A. STARKS, JR.	J. A. WERT	E.	89-NE-314	A	ROSENSTEIN
UNIV OF TEXAS						
UNIV OF SOUTHERN CALIFORNIA (ELEC ENG)						
UNIV OF TENNESSEE						
UNIV OF TENNESSEE / SPACE INSTITUTE						
UNIV OF UTAH						
UNIV OF VERMONT						
UNIV OF VIRGINIA						

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UNIV OF WASHINGTON	CCOON		J.	P	89-NM-662		GLASSMAN
	LASIECKA		IRENA		89-NM-650		CROWLEY
	AKSAY		I.	A	89-NC-364		ULRICH
			I	A	89-NC-370		ULRICH
UNIV OF WISCONSIN	DOHERTY		NANCY	M	89-NC-345	A	MATUSZKO
	ENGEL		THOMAS		89-NC-351	A	BURGGRAB
	YEE		SINCLAIR	S	83-NE-415		LITTON
	AGRAWAL		RAJEEV		89-NM-654		CROWLEY
	GUERNER		JOHN	A	89-NM-691		BAROUCH
UNIV OF WYOMING	HELLSTROM		ERIC	E	89-NC-324		WILKES
	CARRON		KEITH	N	89-NC-313		ULRICH
	COCN		DENNIS	C	89-NE-416		ROSENSTEIN
	HANSEN		ANDREW	T	89-NA-403		HARITOS
UNIV OF YORK	SUTCLIFFE		B		89-NC-348		DAVIS
	DARRAH		RODNEY	C	89-XO-027	A	CAVENDER
UNIVERSAL ENERGY SYSTEMS INC	DARRAH		RODNEY		89-XO-039	A	CAVENDER
			PAUL	G	89-XO-044	A	CAVENDER
VANDERBILT UNIVERSITY	LENHART				89-XO-045	A	CAVENDER
VIRGINIA POLYTECHNIC INST & STATE UNIV	GIBSON		HARRY	W	89-NC-310		ULRICH
	CRCBY		GLENN	A	89-NC-377		ULRICH
WASHINGTON STATE UNIVERSITY	CRCWE		CLAYTON	T	89-NE-365		ROSENSTEIN
	RAMAPRIAN		B	R	89-NA-396	A	HELIN
WASHINGTON UNIVERSITY	WHITNEY		PAUL		89-NL-294		FREGLY
	ABRAMS		RICHARD	A	89-NL-313		TANGNEY
WAYNE STATE UNIVERSITY	GLLARI		ESIN		89-NC-404		ULRICH
	KAZIMIERCZUK		MARIAN	K	83-NE-411		WITT
WRIGHT STATE UNIVERSITY	WEISS		ISAAC	A	83-NE-394		ROSENSTEIN
	HUBERMAN		BERNARDO		89-NE-323	D	GILES
XEROX RESEARCH CENTER	YU		Y		89-NA-366		AMOS
	Y. YU ASSOCIATES		ILSE	G	89-NM-677		HOLLAND
YALE UNIVERSITY	SAMUEL		ARTHUR		89-NL-286		TANGNEY
	HIRSCH		JCY		89-NL-319		TANGNEY
YALE UNIVERSITY SCHOOL OF MEDICINE							

PART II

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PROPOSAL STATUS REPORT (1 JUL 89 - 30 SEP 89)
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TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
REAL TIME STEREO TRIANGULATION FOR STRUCTURAL SYSTEM IDENTIFICATION TEXAS A AND M UNIVERSITY	JUNKINS JOHN	R 12 10/07/89 \$99,282	AMOS 89-NA-347	
ROBUST CONTROL SYSTEM DESIGN IN TH FREQUENCY DOMAIN FOR HIGH PERFORMANCE IN PRESENCE OF REALISTIC UNCERTAINTIES & CONSTRAINTS TEXAS A AND M UNIVERSITY	JAYASURIYA SUHADA	N 36 13/07/89 \$337,628	AMOS 89-NA-352	
EFFECTIVE COMPUTATIONAL STRATEGY FOR PREDICTING THE RESPONSE OF COMPLEX SYSTEMS GEORGE WASHINGTON UNIVERSITY	NOOR AHMED	R 36 03/08/89 \$219,588	A AMOS 89-NA-362	\$69,999 01/01/90 \$219,588
ACTIVE CONTROL OF VIBRATIONS IN LARGE COMPLIANT STRUCTURES BY MODE LOCALIZATION TEXAS A AND M UNIVERSITY	JAYASURIYA SUDHADA	N 35 03/08/89 \$358,594	AMOS 89-NA-363	
COMPUTATIONAL METHODS FOR MATERIAL FAILURE PROCESSES NORTHWESTERN UNIVERSITY	BELYTSCHKO PROFESSOR	N 36 03/08/89 \$225,176	0 AMOS 89-NA-364	
STUDY OF DYNAMICS AND OPTIMAL CONTROL OF ROBOTIC MANIPULATORS BY CELL MAPPING APPROACH NEW JERSEY INSTITUTE OF TECHNOLOGY	LEU MING	N 36 04/08/89 \$255,972	D AMOS 89-NA-365	
DYNAMICS AND VIBRATION OF SANDWICH PLATES AND SHELLS WITH LAMINATED COMPOSITE FACINGS Y. Y. YU ASSOCIATES	YU Y	N 36 05/08/89 \$122,660	D AMOS 89-NA-366	
THEORETICAL AND FINITE ELEMENT VIBRATION OF AIRCRAFT CONTROL SURFACES PURDUE UNIVERSITY OF ENGINEERING & TECH	PAYDAR NASSER	N 12 05/08/89 \$24,692	D AMOS 89-NA-370	
MODELING AND CONTROL OF LARGE FLEXIBLE VEHICLES IN SPACE STANFORD UNIVERSITY	GRYSCN ARTHUR	R 12 17/08/89 \$50,000	AMOS 89-NA-376	

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
STOCHASTIC PROPERTIES OF MISTUNED BLADED DISK				
INDIANA UNIVERSITY-PURDUE UNIV AT INDEPLS	AFOLABI	N 36 17/08/89 \$218,450	AMOS 89-NA-377	
PROPULSION-AIRFRAME INTEGRATED DYNAMICS AND CONTROL				
FURULE RESEARCH FOUNDATION	NWOKAH	N 36 17/09/89 \$285,122	AMOS 89-NA-378	
CONTROL AUGMENTED STRUCTURAL OPTIMIZATION OF AERCELASTICALLY TAILORED FIBER COMPOSITE WINGS	SCHMIT	R 36 17/08/89 \$469,051	D AMOS 89-NA-379	
UNIV OF CALIFORNIA	LUCIEN			
HIGH VOLTAGE CONDUCTORS ON SPACECRAFT AND THEIR INTERACTIONS WITH SELF GENERATED PLASMA CLOUDS	HASTINGS	R 24 19/09/89 \$219,405	A BIRKAN 89-NA-425	
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	CANIEL			
A NEW STATISTICAL METHOD FOR IN-SITU DETERMINATION OF SOIL DYNAMIC PROPERTIES AND PREDICTION OF STRUCTURE RESPONSE AND LOADING	JACKSON C	N 24 25/07/89 \$141,662	BOYCE 89-NA-353	
UNIV OF MARYLAND				
CONSTITUTIVE MODELING OF CEMENTED SOILS				
UNIV OF ARIZONA	KIOUSIS	N 24 16/08/89 \$152,693	BOYCE 89-NA-374	
PROVIDE COMPUTER SUPPORT ON WL CRAY-2 FOR AFOSR CONTRACT NO. 89-C-0037 WITH APPLIED RESEARCH ASSOCIATES, INC	BLOUIN	N 12 18/09/89 \$760	A BOYCE 89-NA-413	\$760 01/10/89 \$760
APPLIED RESEARCH ASSOCIATES INC	SCOTT			
CONSTRAINT NETS FOR LIFE CYCLE ENGINEERING				
NORTH CAROLINA STATE UNIVERSITY	C'GRADY	N 36 22/08/89 \$1,322,943	CROWLEY 89-NA-381	
A UNIFI C REPRESENTATION TO SUPPORT EVALUATION OF DESIGNS FOR MANUFAC URIBILITY				
RENSSELAER POLYTECHNIC INSTITUTE	WOZNY	N 36 22/08/89 \$1,245,462	CROWLEY 89-NA-382	
	MICHAEL			

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PROCESS OPTIMIZATION FOR IMPROVED STRUCTURAL INTEGRITY PENNSYLVANIA STATE UNIVERSITY	HAHN	N 09 10/07/89 \$58,284	HARITOS 89-NA-345	
STRESS DIFFUSION IN COMPOSITES AT FINITE STRAIN CAMBRIDGE UNIVERSITY (TRUMPINGTON ST)	STRONGE	N 36 10/07/89 \$87,612	HARITOS 89-NA-348	
DYNAMICS AND CONTROL OF TETHERED ANTENNAS/REFLECTORS IN ORBIT HOWARD UNIVERSITY	BAINLM PETER	R 24 10/07/89 \$237,535	A HARITOS 89-NA-349	\$0 15/12/89 \$94,000
MATRIX FRACTURE MECHANISMS AND MICROMECHANICS VARIABLES IN FIBER- REINFORCED CERAMIC MATRIX COMPOSITES CREXEL UNIVERSITY	WANG A	N 36 05/08/89 \$444,461	HARITOS 89-NA-367	
(90 URI-GB) ANISOTROPIC DAMAGE MECHANICS MODELING IN METAL MATRIX COMPOSITES LOUISIANA STATE UNIVERSITY	VOYIACJIS G	N 36 05/08/89 \$294,914	HARITOS 89-NA-368	
TAILORING INTERFACES FOR COMPOSITE MATERIALS UNIV OF TEXAS	LIECHTI K	N 36 17/08/89 \$449,366	HARITOS 89-NA-375	
CRAZING IN POLYMERIC AND COMPOSITE SYSTEMS UNIV OF MINNESOTA	HSIAC C	R 36 17/08/89 \$295,980	HARITOS 89-NA-380	
(90 URI) MODELLING OF WAVE PROPAGATION IN LAYERED MEDIA NORTHERN ILLINOIS UNIVERSITY	BLCOM FREDERICK	N 93 05/09/89 \$158,030	HARITOS 89-NA-388	
(90 URI) NON-LOCAL CONTINUUM DAMAGE MECHANICS AND PLASTICITY APPROACH TO THE INELASTIC BEHAVIOR OF BRITTLE SOLIDS NORTH DAKOTA STATE UNIVERSITY	YAZDANI FRANK	N 36 05/09/89 \$165,000	HARITOS 89-NA-389	

TITLE (TITLE (CONT.)) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(30 URI/G) CREEP IN METAL MATRIX-COMPOSITES ILLINOIS INSTITUTE OF TECHNOLOGY	SCIAMMARELLA CESAR	N 48 16/09/89 \$553,623	HARITOS 89-NA-397	
(30 URI/G) FUNDAMENTAL STUDY ON MECHANICAL BEHAVIOR OF SUPERCONDUCTING MAGNETO-THERMO-ELASTIC COMPOSITES (CLARKSON UNIVERSITY	LEE JONG	N 12 16/09/89 \$116,965	HARITOS 89-NA-398	
(30 URI/G) INTEGRATED MODELING AND SIMULATION OF DAMAGE IN COMPOSITE MATERIALS UNIV OF NEBRASKA	MEHRDAD MEHRDAD	N 36 16/09/89 \$750,000	HARITOS 89-NA-399	
(30 URI/G) ANALYTICAL AND EXPERIMENTAL INVESTIGATION OF THE MICROFAILURE MECHANISM OF COMPOSITE MATERIALS SYRACUSE UNIVERSITY	MANDEL JAMES	N 24 16/09/89 \$322,186	HARITOS 89-NA-400	
(30 URI/G) THREE-DIMENSIONAL EXPERIMENTAL & COMPUTATIONAL ANALYSIS OF CRACKS APPROACHING INTERFACES STATE UNIVERSITY OF NEW YORK	CHIANG FU-PEN	N 36 16/09/89 \$365,681	HARITOS 89-NA-401	
(30 URI/G) A FRACTURE MODEL BASED ON SIMILARITY AT FAILURE FOR SOFTENING MATERIALS DUKE UNIVERSITY	CJORCVIC RASKO	N 36 16/09/89 \$309,144	HARITOS 89-NA-402	
(30 URI/G) MECHANICAL & ELECTROMAGNETIC PROPERTIES OF POLYMERS IN THE PROCESS OF KINETIC FRACTURE UNIV OF WYOMING	HANSEN ANDREW	N 36 16/09/89 \$361,563	HARITOS 89-NA-403	
(30 URI/G) THE IN-SITU DEVELOPMENT OF A 3-D REINFORCEMENT STRUCTURE FOR THE IMPROVEMENT OF INTERLAMINAR PROPERTIES OF COMPOSITES COLORADO STATE UNIVERSITY	RADEFORD DONALD	N 36 16/09/89 \$484,510	HARITOS 89-NA-404	
(30 URI/G) THERMOMECHANICAL FATIGUE FAILURE CRITERIA ILLINOIS INSTITUTE OF TECHNOLOGY	NEWAZ GOLAM	N 36 16/09/89 \$449,157	HARITOS 89-NA-405	

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(90 URI/G) MECHANICAL BEHAVIOR OF PHASE TRANSFORMING MATERIALS UNIV OF HOUSTON	RAVI-CHANDAR KRISHNASWAMY	N 36 16/09/89 \$337,774	HARITOS 89-NA-406	
(90 URI/G) EXPERIMENTAL INVESTIGATION ON THE DYNAMIC CRACK PROPAGATION IN CERAMICS LEHIGH UNIVERSITY	VOLOSHIN ARKADY	N 36 16/09/89 \$630,239	HARITOS 89-NA-407	
(90 URI/G) AN EMPIRICAL METHOD OF MEASURING THE DEFORMATION AND FRACTURE STRENGTHS OF MICROSTRUCTURAL COMPONENTS SYRACUSE UNIVERSITY	LIU HAO-WEN	N 36 16/09/89 \$747,591	HARITOS 89-NA-408	
(90 URI/G) EFFECTIVE PROPERTIES OF COMPOSITE MATERIALS AND POLYCRYSTALS FROM MICROSTRUCTURE MEASUREMENT CATHOLIC UNIVERSITY OF AMERICA	BERAN MARK	N 24 16/09/89 \$601,312	HARITOS 89-NA-409	
(90 URI/G) COMPUTER MODELING OF FAILURE PROCESSES OF FIBROUS COMPOSITE MATERIALS UNIV OF SOUTH CAROLINA	LYNCH JAMES	N 36 16/09/89 \$527,379	HARITOS 89-NA-410	
(90 URI/G) MICROSTRUCTURAL DESIGN OF CARBON FIBERS TO IMPROVE COMPOSITE PROPERTIES UNIV OF TEXAS	JOSHI SHIV	N 36 16/09/89 \$498,958	HARITOS 89-NA-411	
(90 URI/G) CONSTITUTIVE MODELING AND EXPERIMENTAL STUDIES OF DEFORMATION AND FAILURE IN PARTICLE REINFORCED METAL-MATRIX COMPOSITES UNIV OF RHODE ISLAND	TAGGART DAVID	N 24 16/09/89 \$211,656	HARITOS 89-NA-412	
(90 URI/G) MICROSTRUCTURAL CHARACTERIZATION OF GLASS BRITTLE MATERIALS UNDER DYNAMIC LOADS UNIV OF NEW MEXICO	ROSS TIMOTHY	N 36 18/09/89 \$303,230	HARITOS 89-NA-414	
(90 URI/G) EXPERIMENTAL MICROMECHANICS OF COMPOSITE MATERIALS MONTANA STATE UNIVERSITY	MANDELL JOHN	N 36 18/09/89 \$389,067	HARITOS 89-NA-415	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(30 UPI/G) A COMPREHENSIVE STUDY OF MATRIX FRACTURE MECHANISMS IN FIBER-REINFORCED CERAMIC MATRIX COMPOSITES CREXEL UNIVERSITY	WANG ALBERT	N 36 18/09/89 \$477,000	HARITOS 89-NA-416	
(30 UPI/G) UNDERSTAND OF FAILURE MECHANISM AND STRENGTH IMPROVEMENT BY MICRO-MACRO ANALYSIS IN LAMINATED COMPOSITES UNIV OF TEXAS	CHAN WEN	N 36 18/09/89 \$440,416	HARITOS 89-NA-417	
(30 UPI/G) ROLE OF STOCHASTIC MICROSTRUCTURES ON INELASTIC MATERIAL BEHAVIOR STATE UNIVERSITY OF NEW YORK	KUSHNER ALAN	N 36 18/09/89 \$380,978	HARITOS 89-NA-418	
(30 UPI/G) MICROMECHANICS OF INCLUSION DERORING SYRACUSE UNIVERSITY	LEVY ALAN	N 36 18/09/89 \$232,099	HARITOS 89-NA-419	
MESOMECHANICAL THEORY FOR EXPANSIVE DAMAGE IN MONOTONIC AND CYCLIC FRACTURE OF CERAMIC COMPOSITES NORTHWESTERN UNIVERSITY	BAZANT IDENEK	N 36 19/09/89 \$275,047	HARITOS 89-NA-420	
(30 UPI/G) STOCHASTIC FAILURE ANALYSIS OF BRITTLE MATERIALS USING DISCRETE PARTICLE SIMULATION DUKE UNIVERSITY	JACOB TIMOTHY	N 36 19/09/89 \$292,479	HARITOS 89-NA-421	
(30 UPI/G) MICROMECHANICAL PREDICTION OF TENSILE DAMAGE FOR CERAMIC MATRIX COMPOSITES UNDER HIGH TEMPERATURE CITY COLLEGE - CUNY	CELALE FERIDUN	N 36 19/09/89 \$269,371	HARITOS 89-NA-422	
(30 UPI/G) AN EXPERIMENTAL APPROACH TO PREDICT THE GROWTH RATE OF SMALL FATIGUE CRACKS BASED ON LARGE CRACK DATA UNIV OF PUERTO RICO	MAZUMCAR FRANAB	N 24 19/09/89 \$150,368	HARITOS 89-NA-423	
(30 UPI/G) MECHANICS OF HIGH TEMPERATURES METAL MATRIX COMPOSITES ARIZONA STATE UNIVERSITY	KOURIS CEMITRIS	N 36 19/09/89 \$514,500	HARITOS 89-NA-424	

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CALCULATED ACALINEAR AERODYNAMICS OF SLENDER WINGS IN SEVERE UNSTEADY MOTION INCLUDING EDGE SEPARATION MASSACHUSETTS INSTITUTE OF TECHNOLOGY	MCCUNE	R 24 25/07/89 \$92,300	A HELIN 89-NA-356	\$92,300 01/12/89 \$92,300
ACTIVE STABILIZATION OF AEROMECHANICAL SYSTEMS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	EPSTEIN	R 36 26/07/89 \$750,654	A HELIN 89-NA-359	\$250,014 01/11/89 \$750,654
SIMULATION, CHARACTERIZATION AND CONTROL OF FORCED UNSTEADY SEPARATED VISCOUS FLOWS USING NAVIER-STOKES EQUATIONS UNIV OF CINCINNATI	GHIA	N 24 30/08/89 \$315,649	A HELIN 89-NA-384	\$150,728 01/01/90 \$315,649
ACTIVE CONTROL OF VORTICAL FLOWFIELDS STANFORD UNIVERSITY	ROBERTS	N 24 30/08/89 \$330,000	HELIN 89-NA-386	
UNSTEADY FLUID DYNAMIC INTERACTION IN SUPERSONIC COMBUSTORS TEXAS A AND M RESEARCH FOUNDATION	MARONGIU	N 24 14/09/89 \$119,138	HELIN 89-NA-394	
EXPERIMENTAL STUDIES OF REATTACHING SONIC RADIAL FLOWS TEXAS A AND M RESEARCH FOUNDATION	MARONGIU	N 24 14/09/89 \$153,777	HELIN 89-NA-395	
STUDY OF THE LEADING-EDGE VORTEX DYNAMICS IN THE UNSTEADY FLOW OVER AN AIRFOIL WASHINGTON STATE UNIVERSITY	RAMAPRIAN	N 24 14/09/89 \$225,519	A HELIN 89-NA-396	\$112,747 01/01/90 \$225,519
COMPRESSIBILITY EFFECTS ON DYNAMIC STALL OF AIRFOILS UNDERGOING RAPID TRANSIENT PITCHING MOTION NAVAL POST GRADUATE SCHOOL	CHANDRASEKHARA	N 36 20/09/89 \$311,700	A HELIN 89-NA-426	\$105,000 01/10/89 \$311,700
THE FEASIBILITY OF THRUST AUGMENTING EJECTORS FOR HIGH-SPEED AIRCRAFT AND MISSILES GEORGE WASHINGTON UNIVERSITY	GAROTIS	N 24 27/09/89 \$290,500	HELIN 89-NA-427	

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ON THE LARGE COHERENT STRUCTURES IN A WALL JET UNIV OF ARIZONA	WYGNANSKI ISRAEL	R 12 21/07/89 \$108,990	A MCMICHAEL 89-NA-354	\$108,990 13/11/89 \$108,990
STUDY OF TURBULENT BOUNDARY LAYER STRUCTURES BY DIRECT NUMERICAL AND LARGE-EDDY SIMULATION NATIONAL CENTER FOR ATMOSPHERIC RESEARCH	PERRING JACKSON	N 24 25/07/89 \$204,500	A MCMICHAEL 89-NA-357	\$99,700 01/11/89 \$204,500
STRUCTURE & DYNAMICS OF TURBULENT WALL LAYERS UNIV OF ILLINOIS	ADRIAN RONALD	N 36 09/08/89 \$328,589	MCMICHAEL 89-NA-371	
FAVIER-STOKES SIMULATION OF BOUNDARY LAYER TRANSITION ARIZONA STATE UNIVERSITY	REED HELEN	R 36 09/08/89 \$280,607	MCMICHAEL 89-NA-372	
NUMERICAL STUDIES OF THE STRUCTURE OF COMPRESSIBLE TURBULENT SHEAR FLOWS PRINCETON UNIVERSITY	CRSZAG STEVEN	R 32 14/09/89 \$486,807	A MCMICHAEL 89-NA-393	\$119,834 15/01/90 \$486,807
DYNAMICAL SYSTEM PREDICTION OF THE SCALAR FIELD IN A TURBULENT CHANNEL FLOW UNIV OF NEW MEXICO	TRUMAN C RANDALL	N 24 27/09/89 \$70,000	MCMICHAEL 89-NA-428	
THREE-DIMENSIONAL STRUCTURE OF TRANSITIONAL BOUNDARY LAYERS ARIZONA STATE UNIVERSITY	SARIC WILLIAM	N 24 27/09/89 \$211,000	A MCMICHAEL 89-NA-429	\$78,000 02/01/90 \$216,000
JOINT AGENCY HYPERSONIC RESEARCH AND TRAINING PROGRAM NASA - NATIONAL AERONAUTICAL AND SPACE ADMIN	WANDER STEVE	N 12 06/07/89 \$150,000	A SAKELL 89-NA-343	\$150,000 01/10/89 \$150,000
COMPUTATIONAL STUDIES OF VORTEX BREAKDOWN ARIZONA STATE UNIVERSITY	NEITZEL G	N 12 14/07/89 \$41,670	SAKELL 89-NA-353	

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(COLLABORATIVE TESTING OF TURBULENCE MODELS STANFORD UNIVERSITY	BRADSPAW	N 18 01/08/89 \$223,433	A SAKELL 89-NA-360	\$223,433 15/11/89 \$223,433
STUDY OF TURBULENCE IN RAREFIED GASES NIELSEN ENGINEERING AND RESEARCH CO	NIXON	N 36 14/09/89 \$324,394	SAKELL 89-NA-390	
INVESTIGATION OF BURNETT EQUATIONS FOR TWO-DIMENSIONAL HYPERSONIC FLOW STANFORD UNIVERSITY	CHAPMAN	N 12 14/09/89 \$130,684	SAKELL 89-NA-391	
DEVELOP A VISCOUS SHOCK LAYER THEORY FROM MAXWELL'S TRANSFER EQUATIONS AND RELATED PARTICULATE/CONTINUUM ANALYSES UNIV OF SOUTHERN CALIFORNIA	HSIEN	R 24 14/09/89 \$234,205	SAKELL 89-NA-392	
FUNDAMENTAL STUDIES OF DROPLET INTERACTIONS IN DENSE SPRAYS UNIV OF CALIFORNIA	SIRIGNANC	N 36 10/07/89 \$312,160	A TISHKOFF 89-NA-350	\$100,000 01/11/89 \$312,168
FLAME TURBULENCE INTERACTIONS PENNSYLVANIA STATE UNIVERSITY	SANTAVICCA	N 36 24/07/89 \$227,568	A TISHKOFF 89-NA-355	\$74,693 01/11/89 \$227,568
LIQUID JET BREAKUP: DIRECT NUMERICAL SIMULATION STATE UNIVERSITY OF NEW YORK	ASHGRIZ	N 24 05/08/89 \$96,815	C TISHKOFF 89-NA-369	
Soot Particle Inception and Growth Processes in Combustion PENNSYLVANIA STATE UNIVERSITY	SANTCRO	R 24 24/08/89 \$210,000	A TISHKOFF 89-NA-383	\$100,000 15/01/90 \$210,000
POVPL NONLINEAR LASER DIAGNOSTIC TECHNIQUES OPT INTERNATIONAL	HUESTIS	N 36 05/09/89 \$619,720	A TISHKOFF 89-NA-397	\$163,907 01/03/90 \$0

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INSTITUTION

A STOCHASTIC THEORY FOR THE CRACK INSTABILITY IN SHORT FIBER
REINFORCED COMPOSITES
UNIV OF NEW MEXICO

FREDERICK

JU

MECHANICAL INTERACTIONS BETWEEN SYNTHETIC FIBER & CEMENT BASED
MATRIX IN FRC COMPOSITES
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

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VICTOR

MICROCRACKING CHARACTERISTICS OF CONCRETE DISCONTINUITY POINT

UNIV OF HOUSTON

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THOMAS

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N 36 07/07/89 \$336,971	WU 89-NA-344	
N 24 09/08/89 \$195,800	WU 89-NA-373	
N 24 30/08/89 \$231,794	WU 89-NA-335	

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HYPER THERMAL ATOMIC OXYGEN GENERATOR NASA - LANGLEY RESEARCH CENTER	CUTLAW	N 12 04/08/89 \$30,000	A BURGGRAF 89-NC-344	\$30,000 01/10/89 \$30,000
A COMBINED XPS-AES-ISS-SIMS-MODULATED MOLECULAR BEAM INVESTIGATION OF THE REACTIONS OF OXYGEN AND FLUORINE WITH SILICON SURFACES UNIV OF WASHINGTON	ENGEL	R 08 15/08/89 \$81,069	A BURGGRAF 89-NC-351	\$81,069 01/04/90 \$81,069
EPITAXY INDUCED BY ENERGETIC CHANNELLED IONS UNIV OF FLORIDA	SEIBERLING	N 12 05/09/89 \$117,584	BURGGRAF 89-NC-359	
1990 SAMUEL SYMPOSIA UNIV OF FLORIDA	CHRN	N 06 06/07/89 \$15,000	DAVIS 89-NC-312	
NON-LINEAR OPTICAL EFFECTS IN MOLECULES UNIV OF FLORIDA	BARTLETT	N 12 11/07/89 \$35,779	DAVIS 89-NC-314	
NONLINEAR OPTICAL PROPERTIES OF CONDUCTING POLYMERS UNIV OF HOUSTON	SU	N 12 20/07/89 \$98,474	DAVIS 89-NC-318	
RATIONAL DESIGN, CONSTRUCTION, AND PROCESSING OF HIGH-PERFORMANCE POLYMER OPTICAL MATERIALS NORTHWESTERN UNIVERSITY	MARKS	N 12 20/07/89 \$261,508	A DAVIS 89-NC-319	\$261,508 01/12/89 \$721,165
GAS-SOLID DYNAMICS AT DISORDERED AND ADSORBATE-COVERED SURFACES PRINCETON UNIVERSITY	PATITZ	N 12 27/07/89 \$172,444	DAVIS 89-NC-325	
PHOTONICS AND NONLINEAR OPTICS WITH MOLECULAR MATERIALS AND POLYMERS STATE UNIVERSITY OF NEW YORK	PRASAD	R 12 31/07/89 \$336,766	DAVIS 89-NC-327	

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ROMANIAN DYNAMICS SIMULATIONS AND GROUP THEORY STATISTICAL MECHANICS OF SUSPENSIONS ROYAL HOLLOWAY & BEDFORD NEW COLLEGE	MEYES C. M.	N 12 31/07/89 \$64,943	DAVIS 89-NC-330	
THEORETICAL INVESTIGATIONS OF THE NONLINEAR OPTICAL RESPONSE OF CRISTATED POLYMERS AND POLYMERIC DEVICES STATE UNIVERSITY OF NEW YORK	GEORGE THOMAS	N 12 31/07/89 \$165,000	DAVIS 89-NC-332	
SPECTROSCOPY OF THE TRANSITION STATE REGION IN HYDROGEN TRANSFER REACTIONS UNIV OF CALIFORNIA	NEUMARK DANIEL	R 12 31/07/89 \$147,937	DAVIS 89-NC-333	
STUDIES OF MOLECULAR BONDS IN THE FEMTOSECOND TIME SCALE WITH SUPERSONIC MOLECULAR BEAMS UNIV OF NEW MEXICO	WALTERS EDWARD	N 12 01/08/89 \$228,580	CAVIS 89-NC-335	
THEORIES AND PREDICTIONS FOR PHYSICAL PROPERTIES OF ORGANIC NONLINEAR OPTICAL MATERIALS IN CONDENSED PHASES LOS ALAMOS SCIENTIFIC LAB (CALIF UNIV)	COWELL F	N 12 01/08/89 \$185,900	DAVIS 89-NC-338	
IONIZED-CLUSTER-BEAM/PARTIALLY-IONIZED-BEAM DEPOSITION OF ELECTRO- OPTICAL AND NONLINEAR OPTICAL ORGANIC MATERIALS & DEVICE DEVELOPME RENSSELAER POLYTECHNIC INSTITUTE	MCDONALD JOHN	N 12 01/08/89 \$337,301	DAVIS 93-NC-339	
THEORIES AND PREDICTIONS FOR PHYSICAL PROPERTIES OF ORGANIC NONLINEAR OPTICAL MATERIALS IN CONDENSED PHASES LOS ALAMOS TECHNICAL ASSOCIATES INC	COWELL F.	N 12 10/09/89 \$185,900	M DAVIS 99-NC-346	
THE CALCULATION OF HIGHLY EXCITED ROTATION-VIBRATION MOTIONS AND RADIATIVE LIFETIMES OF SOME SMALL MOLECULES UNIV OF YORK	SUTCLIFFE B	N 12 14/08/89 \$48,885	DAVIS 89-NC-348	
FOURTH INTERNATIONAL SYMPOSIUM ON SOLUBILITY PHENOMENA RENSSELAER POLYTECHNIC INSTITUTE	KRAUSE SONJA	N 12 15/08/89 \$5,000	C DAVIS 89-NC-352	

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THEORY AND EXPERIMENTS ON CHEMICAL INSTABILITIES STANFORD UNIVERSITY	ROSS	R 12 31/08/89 \$140,000	A DAVIS 89-NC-358	\$140,000 01/01/90 \$140,000
VOLCANIC GROUND STATES THEORETICAL & PHYSICAL CHEMISTRY INST	NICOLAIDES	N 12 06/09/89 \$102,000	D DAVIS 89-NC-362	
FUNCTIONALIZATION OF INORGANIC NETWORK POLYMERS PENNSYLVANIA STATE UNIVERSITY	BIANCCINI	N 12 03/07/89 \$157,519	MATUSZKO 89-NC-309	
PROCESSIBLE PRECURSORS FOR METAL NITRIDES ULTRASYSTEMS INC	FACIOREK	N 12 28/07/89 \$96,316	MATUSZKO 89-NC-326	
POLYMER-SUPPORTED SILSESQUOXANES AS MODELS FOR SILICA UNIV OF CALIFORNIA	FERER	N 12 31/07/89 \$148,270	MATUSZKO 89-NC-334	
NEW EXPERIMENTAL CHALLENGES IN ELEMENTAL FLUORINE CHEMISTRY: EMERGING TECHNOLOGY UNIV OF TEXAS	LAGOW	R 12 04/08/89 \$100,000	A MATUSZKO 89-NC-343	\$100,000 01/12/89 \$100,000
SYNTHESIS AND STUDY OF METALLONITRIDE COMPLEXES AND POLYMERS UNIV OF WASHINGTON	COHERTY	R 12 09/09/89 \$72,944	A MATUSZKO 89-NC-345	\$72,944 15/01/90 \$149,436
BIOLOGICAL SYNTHESIS OF SUBSTITUTED C-AMINOPHENOLS GENERAL ELECTRIC CO	LEIB	P 12 21/08/89 \$95,000	A MATUSZKO 89-NC-354	\$70,421 01/01/90 \$97,895
BIOLOGICAL SYNTHESIS OF SUBSTITUTED C-AMINOPHENOLS GENERAL ELECTRIC CO	FINKBEINER	R 12 13/09/89 \$93,895	M MATUSZKO 89-NC-381	

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PHOTOFABRICATION OF THREE-DIMENSIONAL PROTOTYPES ERI INTERNATIONAL	NARANG	N 12 15/09/89 \$145,952	MATUSZKO 89-NC-416	
WEAK ELECTRIFICATION OF ICE PHASE PRECIPITATION UNIV OF NEVADA	HALLETT	N 12 21/07/89 \$99,978	STOBIE 89-NC-320	
THE EFFECTS OF ATMOSPHERIC TURBULENCE ON IMAGE QUALITY UNIV OF COLORADO	FREHLICH	N 12 31/07/89 \$66,782	STOBIE 89-NC-328	
SCATTERING OF RADIATION BY COMPLEX MICROPARTICLES: A LABORATORY FOR MICROPARTICLE PHYSICS CATHOLIC UNIVERSITY OF AMERICA	LIBERALL	N 12 10/08/89 \$63,000	STOBIE 89-NC-347	
POLY(METABENZYLENE ETHERS), NOVEL HIGH PERFORMANCE THERMOPLASTICS VIRGINIA POLYTECHNIC INST & STATE UNIV	GIBSON	N 12 05/07/89 \$185,441	ULRICH 89-NC-310	
THREE DIMENSIONAL PARTICLE GRATING NONLINEAR OPTICAL AMPLIFIERS UNIV OF WYOMING	CARRON	N 12 11/07/89 \$253,315	ULRICH 89-NC-313	
ENHANCED QUANTUM DOT NONLINEAR OPTICAL MATERIALS SATELLE COLUMBUS LABS	MELLING	N 12 17/07/89 \$121,900	ULRICH 89-NC-316	
PREPARATION AND CHARACTERISATION OF POLY DI AND TRI-ACETYLENES AS MATERIALS FOR NON-LINEAR OPTICS RAPIER POLYTECHNIC OF EDINBURGH	MILBURN	N 12 24/07/89 \$38,731	ULRICH 89-NC-321	
NOBEL SYMPOSIUM IN CHEMISTRY: CONJUGATED POLYMERS AND RELATED MATERIALS: THE INTERCONNECTION OF CHEMICAL & ELECTRONIC STRUCTURE UNIV OF CALIFORNIA	MEIER	N 12 25/07/89 \$10,000	ULRICH 89-NC-322	

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INVESTIGATION OF COMPOSITIONAL MODIFICATIONS OF POTASSIUM TITANYL PHOSPHATE FOR NONLINEAR OPTICAL APPLICATIONS CARLEO UNIVERSITY	GLAZER	N 12 25/07/89 \$90,221	ULRICH 89-NC-323	
PHASE EQUILIBRIUM STUDIES IN NZP SYSTEMS				
PENNSYLVANIA STATE UNIVERSITY	AGRAWAL	N 12 31/07/89 \$112,810	ULRICH 89-NC-331	
PROCESSING, FABRICATION, CHARACTERIZATION, AND DEVICE DEMONSTRATION OF HIGH TEMPERATURE SUPERCONDUCTING CERAMICS EDGING CO	LUNMAN	R 12 03/08/89 \$451,425	ULRICH 89-NC-342	
PERCEPITAXY A "UNIVERSAL" ROUTE TO ORIENTED MATERIALS				
UNIV OF CALIFORNIA	SMITH	N 12 14/08/89 \$250,000	ULRICH 89-NC-349	
SYNTHESIS OF NEW ORGANIC AND ORGANOMETALLIC MATERIALS WITH SECOND- ORDER NONLINEAR OPTICAL PROPERTIES JET PROPULSION LABORATORY	MARDER	N 12 16/08/89 \$201,300	ULRICH 89-NC-353	
(URI) STUDY OF MECHANICAL DAMPING IN AIRCRAFT TYPE MATERIAL				
IOWA STATE UNIV OF SCIENCE AND TECH	LAYAL	N 12 29/08/89 \$71,255	ULRICH 89-NC-355	
(URI) PHASE BEHAVIOR, STRUCTURE, AND PROPERTIES OF MODEL BLOCK COPOLYMERS UNIV OF MINNESOTA	BATES	N 12 29/08/89 \$247,363	ULRICH 89-NC-356	
(URI) PHASE BEHAVIOR STRUCTURE AND PROPERTIES OF MODEL BLOCK COPOLYMERS UNIV OF MINNESOTA	BATES	N 12 06/09/89 \$247,363	ULRICH 89-NC-360	
NEW POLYMERS FOR NONLINEAR OPTICS APPLICATIONS				
NORTHERN ILLINOIS UNIVERSITY	SPANGLER	N 12 06/09/89 \$243,241	ULRICH 89-NC-361	
	CHARLES			

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MICRODESIGNING OF LIGHTWEIGHT/HIGH STRENGTH CERAMIC MATERIALS UNIV OF WASHINGTON	AKSAY I.	N 06 07/09/89 \$250,000	ULRICH 89-NC-364	
THE DESIGN, SYNTHESIS AND CHARACTERIZATION OF ORGANIC, ORGANOMETAL LIC AND POLYMERIC MATERIALS WITH THIRD-ORDER OPTICAL NONLINEARITIE CALIFORNIA INSTITUTE OF TECHNOLOGY	ROBERT GRUBBS	N 12 11/09/89 \$312,675	ULRICH 89-NC-365	
ULTRA-HIGH BIAXIAL ORIENTATION OF POLYMERS FUTGERS - THE STATE UNIVERSITY (ENGR)	PAE K	N 12 11/09/89 \$95,638	ULRICH 89-NC-366	
(CURD) MOLECULAR PROPERTIES OF DONOR-ACCEPTOR POLYENES: A STUDY OF NONLINEAR OPTICAL RESPONSES NORTHERN ILLINOIS UNIVERSITY	LIN CHMIU-TSU	N 12 12/09/89 \$82,838	ULRICH 89-NC-367	
SYMPOSIUM R. MATERIALS SYNTHESIS UTILIZING BIOLOGICAL PROCESSES BATTELLE PACIFIC NORTHWEST LABORATORIES	ALPER MARK	N 06 12/09/89 \$5,000	ULRICH 89-NC-368	
(CURD) HYDROLYSIS REACTION AND POSITRONIUM DECAY IN SILICA GELS TEXAS CHRISTIAN UNIVERSITY	ZERDA TADEUSZ	N 12 12/09/89 \$58,347	ULRICH 89-NC-369	
MICRODESIGNING OF LIGHTWEIGHT/HIGH STRENGTH CERAMIC MATERIALS UNIV OF WASHINGTON	AKSAY I	N 12 12/09/89 \$675,000	ULRICH 89-NC-370	
(CURD) SUBMICRON PHOTOGRAPHY OF POLYMERS: FUNDAMENTAL PROCESSES AND DEVICE APPLICATIONS RICE UNIVERSITY	SAUERBREV ROLAND	N 12 13/09/89 \$260,000	ULRICH 89-NC-371	
(CURD) ELECTRONIC PROPERTIES OF POLY (FLUCRO ACETYLENE) CASE WESTERN RESERVE UNIVERSITY	LANDC JEROME	N 12 13/09/89 \$249,326	ULRICH 89-NC-372	

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SOLIC-STATE TUNABLE LASERS BASED ON ORGANIC DYES IN SOL-GEL DERIVED MATRICES UNIV OF CALIFORNIA	MACKENZIE J	N 12 13/09/89 \$75,000	W ULRICH 89-NC-373	
(URI) NONLINEAR OPTICAL SPECTROSCOPY AND WAVEGUIDING IN POLYMERS UNIV OF MARYLAND, BALTIMORE CAMPUS	CARTER GARY	N 12 13/09/89 \$111,927	ULRICH 89-NC-374	
(URI) INTELLIGENT PROCESSING OF ADVANCED COMPOSITES TUFTS UNIVERSITY	SUNG NAKHO	N 12 13/09/89 \$106,779	ULRICH 89-NC-375	
(URI) OPTICAL CONSTANTS OF POLYMERS UNIV OF ALABAMA	BAIRC JAMES	N 12 13/03/89 \$65,187	ULRICH 89-NC-376	
(URI) DESIGN, SYNTHESIS, AND CHARACTERIZATION OF NOVEL PHASES OF METAL-ORGANIC SOLIDS CONTAINING EXTENDED ELECTRONIC STRUCTURES WASHINGTON STATE UNIVERSITY	CRCSEY GLENN	N 12 13/03/89 \$245,996	ULRICH 89-NC-377	
(URI) CONTROL OF MOBILITY IN MICROSTRUCTURED POLYMER MATERIALS UNIV OF MINNESOTA	LODGE TIMOTHY	N 12 13/09/89 \$159,671	ULRICH 89-NC-378	
(URI) NEW METHODS FOR DIRECT PRODUCTION OF BENZIMIDAZOLE STRUCTURAL FCAM RICE UNIVERSITY	ARMENIADES CONSTANTINE	N 12 13/09/89 \$197,228	ULRICH 89-NC-379	
(URI) DIRECT IMAGING OF THE SURFACE MICROSTRUCTURE OF DIELECTRIC MATERIALS USING AN ATOMIC FORCE MICROSCOPE UNIV OF MAINE	UNERTL WILLIAM	N 12 13/09/89 \$169,854	ULRICH 89-NC-380	
(URI) TRANSITION METAL SUBSTITUTED OLIGO AND POLYSILANE MATERIALS UNIV OF TEXAS	PANNELL KEITH	N 12 13/09/89 \$194,709	ULRICH 89-NC-382	

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(URI) ELECTRONIC APPLICATIONS OF ULTRATHIN POLYMER FILMS UNIV OF TEXAS	FERRARIS JOHN	N 12 13/09/89 \$201,226	ULRICH 89-NC-383	
(URI) PHYSICAL PROPERTY CHARACTERIZATION STUDIES OF HIGH-PERFORMAN CE POLYMERS AND COMPOSITES BY THERMALLY STIMULATED CURRENT SPECTRO LEEMSON UNIVERSITY	ELLISON MICHAEL	N 12 13/09/89 \$153,763	ULRICH 89-NC-384	
(URI) A STUDY OF THE EARLY PHASES OF AN ADDITIVE REACTION BY NUCLEATION IN AN EXPANSION CLOUD CHAMBER UNIV OF MISSOURI	SCHMITT JOHN	N 12 13/09/89 \$80,385	ULRICH 89-NC-385	
(URI) MATERIALS FOR ELECTROOPTIC DEVICES UNIV OF PITTSBURGH	FALK JOEL	N 12 13/09/89 \$331,977	ULRICH 89-NC-386	
(URI) MOLECULAR MICROCOMPOSITES DERIVED FROM THE INTERCALATION OF CONDUCTIVE POLYMERS IN LAYERED METAL-OXIDE XEROGELS MICHIGAN STATE UNIVERSITY	KANACZIOIS MERCOURI	N 12 13/09/89 \$133,747	ULRICH 89-NC-387	
(URI) MICROSTRUCTURE-FRACTURE TOUGHNESS RELATIONSHIP OF ADVANCED GRAPHITE/POLYMER COMPOSITES TUSKEGEE INSTITUTE	AGLAN HERSHMAT	N 12 13/09/89 \$249,420	ULRICH 89-NC-388	
(URI) DEFECT CONTROL OF CARBON FIBER THERMOPLASTIC COMPOSITES CLARKSON UNIVERSITY	CAMPBELL GREGORY	N 12 13/09/89 \$250,000	ULRICH 89-NC-389	
(UPI) NONLINEAR OPTICAL PROPERTIES OF FLUORINATED POLYACETYLENE UNIV OF CENTRAL FLORIDA	HEINONEN CLLE	N 12 13/09/89 \$75,222	ULRICH 89-NC-390	
(URI) DIFFUSION OF DIELECTRIC PARTICLES IN POLYMER NETWORK UNIV OF ARKANSAS/PINE BLUFF	CHCWCHURY ASLAM	N 12 13/09/89 \$191,359	ULRICH 89-NC-391	

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(URI) NOVEL THERMOPLASTIC LIQUID CRYSTAL BLOCK COPOLYMERS UNIV OF CINCINNATI	ROE	N 12 13/09/89 \$168,761	ULRICH 89-NC-392	
(URI) INFRARED MICROSCOPY AS A PROBE OF POLYMER BLEND MICROSTRUCTURE AND DYNAMICS UNIV OF CINCINNATI	POLLACK	N 12 13/09/89 \$72,776	ULRICH 89-NC-393	
(URI) STEREOLITHOGRAPHY FOR THICK-SECTION COMPOSITES CLEMSON UNIVERSITY	CGALE	N 12 14/09/89 \$245,928	ULRICH 89-NC-394	
(URI) COMPUTATIONAL AND EXPERIMENTAL STUDIES OF THE MECHANISMS OF NITRICATION OF POLYSILOXANES CLARK COLLEGE	MARIAM	N 12 14/09/89 \$131,736	ULRICH 89-NC-395	
(URI) MOLECULAR STRUCTURE AND DYNAMICAL CHARACTERIZATIONS OF ADVANCED POLYMERIC MATERIALS USING STEP-SCAN FTIR DUKE UNIVERSITY	PALMER	N 12 14/09/89 \$157,245	ULRICH 89-NC-396	
(URI) TERNARY CHALCOPYRITE COMPOUNDS & ORDERED POLYMER-SILICA COMPOSITES FOR OPTICAL, ELECTRONIC & STRUCTURAL APPLICATIONS OKLAHOMA STATE UNIVERSITY	CZERKAS	N 12 14/09/89 \$314,182	ULRICH 89-NC-397	
(URI) READING AND WRITING AT THE SINGLE MOLECULE LIMIT: SITE SPECIFIC RESPONSE FROM POLYENES UNIV OF CALIFORNIA	KOHLER	N 12 14/09/89 \$160,361	ULRICH 89-NC-398	
(URI) OPTICAL PROPERTIES OF SUSPENSIONS OF (ORGANIC) MICRO- PARTICLES UNIV OF LOWELL	FIDDY	N 12 14/09/89 \$67,600	ULRICH 89-NC-399	
(URI) POLYMERS WITH NONLINEAR OPTICAL PROPERTIES UNIV OF ALABAMA	MCMAHON	N 12 14/09/89 \$3,255,390	ULRICH 89-NC-400	

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(URI) POLYALKYLENE PHOSPHATES AS LIQUID CRYSTALS AND IONIC CONDUCTORS UNIV OF ALABAMA	GRAY	N 12 14/09/89 \$231,632	ULRICH 89-NC-401	
(URI) CONDUCTING POLYMERS IN ZEOLITE HOSTS-DESIGN OF ELECTRONIC NANOSTRUCTURES UNIV OF NEW MEXICO	BEIN	N 12 14/09/89 \$192,616	ULRICH 89-NC-402	
(URI) STUDIES IN SILICON CHEMISTRY NORTH DAKOTA STATE UNIVERSITY	BOUDJOUK	N 12 14/09/89 \$248,909	ULRICH 89-NC-403	
(URI) THERMODYNAMICS AND RHEOLOGY OF SUPERCRITICAL GAS/POLYMER PROCESSING WAYNE STATE UNIVERSITY	GULARI	N 12 14/09/89 \$147,245	ULRICH 89-NC-404	
(URI) COMPREHENSIVE EVALUATION OF CONSTITUTIVE PROPERTIES OF POLYMER CONCRETE MATERIALS AND RESEARCH EQUIPMENT FOR CONSTITUTIVE NORTH CAROLINA A&T STATE UNIVERSITY	SALAMI	N 12 14/09/89 \$249,916	ULRICH 89-NC-405	
(URI) ARTIFICIAL DI-ELECTRIC POLYMERIC MATERIALS NEW JERSEY INSTITUTE OF TECHNOLOGY	GREBEL	N 12 14/09/89 \$89,770	ULRICH 89-NC-406	
(URI) NANOSTRUCTURAL ASPECTS OF ADHESION AT METAL-POLYMER INTERFACES CREVEL UNIVERSITY	DINARCO	N 12 14/09/89 \$156,190	ULRICH 89-NC-407	
(URI) TERPENE NONLINEAR OPTICAL EFFECTS AND COMPUTATIONAL LOGIC ELEMENTS USING POLYMERS CITY COLLEGE - CUNY	ALFARO	N 12 14/09/89 \$231,594	ULRICH 89-NC-408	
(URI) OPTICAL STUDIES OF GLASSES EMBEDDED WITH INORGANIC IONS AND ORGANIC CYCLES ALABAMA A&M UNIVERSITY	REDDY	N 12 15/09/89 \$241,932	ULRICH 89-NC-409	

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(GR) RELAXATION PROCESSES IN SUPERCOOLED LIQUIDS NEAR THE GLASS TRANSITION NAVASAS STATE UNIVERSITY	SORENSEN CHRISTOPHER	N 12 15/09/89 \$147,415	ULRICH 89-NC-410	
(GR) OPTICAL PROPERTIES AND APPLICATIONS OF DIELECTRIC NANOPARTICLES UNIV OF OREGON	WOSSEBERG THOMAS	N 12 15/09/89 \$120,223	ULRICH 89-NC-411	
(GR) STRUCTURE-FRACTURE TOUGHNESS RELATIONSHIP IN RUBBER COMPOUNDS CASE WESTERN RESERVE UNIVERSITY	WOET ABDELSAMIE	N 12 15/09/89 \$163,296	ULRICH 89-NC-412	
(GR) CHARACTERIZATION OF POLYMER STABILIZED COLLOIDAL SOLS WITH LIGHT SCATTERING UNIV OF PITTSBURGH	POST ALBERT	N 12 15/09/89 \$189,520	ULRICH 89-NC-413	
(GR) MOLECULAR ELECTRONIC BASIS OF NONLINEAR OPTICAL BEHAVIOR IN POLYMERS, SQUARE DYES, AND POLYMERIZED SQUARINES UNIV OF CALIFORNIA	SCOTT GARY	N 12 15/09/89 \$222,905	ULRICH 89-NC-414	
(GR) PREPARATION AND CHARACTERIZATION OF NEW HIGH-TEMPERATURE 8- TO 14 UM INFRARED-TRANSMITTING CHALCOGENIDE GLASSES IOWA STATE UNIV OF SCIENCE AND TECH	MARTIN STEVE	N 12 15/09/89 \$134,000	ULRICH 89-NC-415	
1990 GORDON CONFERENCE ON POLYMERS (WEST) IEM ALMAGEN RESEARCH CENTER	FABOLT JOHN	N 06 19/09/89 \$5,300	ULRICH 89-NC-417	
LADDER POLY (BISOCETYLENES) GEORGE MASON UNIVERSITY	HONEYCHUCK ROBERT	N 12 20/09/89 \$585,367	ULRICH 89-NC-418	
CONDUCTING POLYMERS IN POLYMER HOSTS - DESIGN OF ELECTRONIC STRUCTURES UNIV OF NEW MEXICO	BEIN THOMAS	N 12 20/09/89 \$192,516	ULRICH 89-NC-419	

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AN APPROACH TO FULLY CRYSTALLINE POLYPYTEROCYCLES FRANCIS UNIVERSITY	FOXMAN BRUCE	N 12 25/09/89 \$208,109	ULRICH 89-NC-420	
SYMPOSIUM ON BETTER CERAMICS THROUGH CHEMISTRY IV MATERIALS RESEARCH SOCIETY	CLARK DAVID	N 06 26/09/89 \$24,250	ULRICH 89-NC-421	
HIGH PRESSURE IMPEDANCE, INFRARED AND RAMAN SPECTROSCOPY STUDIES OF FAST IONIC CONDUCTING BORATE GLASSES CARNEGIE-MELON UNIVERSITY	HAMMACK WILLIAM	N 12 03/07/89 \$148,472	WILKES 89-NC-308	
APPLICATION OF PHOTOELECTRO-CHEMICAL IMPEDANCE SPECTROSCOPY FOR CHARACTERIZING ALKALINE BATTERY MATERIALS SRI INTERNATIONAL	MACDONALD D	N 12 17/07/89 \$102,761	WILKES 89-NC-317	
MICROCHEMISTRY AND IONIC MOTION OF ZrO ₂ /8-ALUMINA COMPOSITE ELECTROLYTES UNIV OF WISCONSIN	HELLSTROM ERIC	N 12 27/07/89 \$98,450	WILKES 89-NC-324	
ELECTROCHEMICAL SYNTHESIS OF ULTRATHIN FILM COMPOSITE MEMBRANES TEXAS A AND M UNIVERSITY	MARTIN CHARLES	R 12 30/08/89 \$130,401	WILKES 89-NC-357	
ELECTROCHEMICAL SYNTHESIS OF ULTRATHIN FILM COMPOSITE MEMBRANES TEXAS A AND M UNIVERSITY	MARTIN CHARLES	R 12 06/09/89 \$130,401	WILKES 89-NC-363	
PRODUCT CHANNELS IN PHOTODECOMPOSITION OF SMALL MOLECULES SRI INTERNATIONAL	SLANGE TOM	N 12 05/07/89 \$145,928	WODARCZYK 89-NC-311	
FULSEC HF OVERTONE CHEMICAL LASER STUDIES, II PACIFIC APPLIED RESEARCH	WARRER, JR WALTER	N 12 31/07/89 \$245,946	A WODARCZYK 89-NC-329	\$260,574 01/11/89 \$495,892

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PHYSICAL CHEMISTRY OF ENERGETIC NITROGEN COMPOUNDS UNIV OF DENVER	COOMBE ROBERT	N 12 01/08/89 \$100,000	WODARCZYK 89-NC-336	
SPECTROSCOPY AND DYNAMICS OF ENERGETIC AMINES UNIV OF DENVER	GILBERT JULANNA	N 12 01/08/89 \$100,000	WODARCZYK 89-NC-337	
ELECTRONICALLY EXCITED MOLECULES: REACTION KINETICS AND EMISSION OF LIGHT NANODSECOND INFRARED SPECTROSCOPY ELECTRONIC EMISSION FROM UNIV OF CALIFORNIA	MOORE C. BRADLEY	N 12 02/08/89 \$90,000	A WODARCZYK 89-NC-340	\$90,000 01/11/89 \$90,000
COMPLEMENTARY IR AND COHERENT RAMAN STUDIES OF MOLECULAR SOLUTES UNIV OF OREGON	DYKE THOMAS	N 12 03/03/89 \$100,000	WODARCZYK 89-NC-341	
A STUDY OF THE COLLISIONAL EXCITATION OF UV-V EMISSION BY ENERGETIC ATMOSPHERIC SPECIES UNIV OF SOUTHERN CALIFORNIA	MUNTZ E. P.	N 12 14/08/89 \$0	WODARCZYK 89-NC-350	

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FUTURE RESEARCH DIRECTIONS IN CIRCUITS, SYSTEMS, AND SIGNAL PROCESSING UNIV OF ILLINOIS	M. VAN VALKENBURG	N 12 16/09/89 \$71,500	CRAIG 89-NE-339	
ORGANIZATION OF THE SECOND INTERNATIONAL CONFERENCE ON INDIUM PHOSPHIDE AND RELATED MATERIALS INST. OF ELECTRICAL & ELECTRONICS ENGRG	TIMOTHY COUTTS	N 10 18/08/89 \$5,000	CRAIG 89-NE-340	
OPTICAL INTERCONNECTS FOR A VISUAL PROCESSING SYSTEM UNIV OF CALIFORNIA, SAN DIEGO	CLARK GUEST	N 24 21/08/89 \$279,506	CRAIG 89-NE-342	
EFFICIENCY OF THE BROAD-BAND EMITTING MATERIALS COSTEN UNIVERSITY	ALEXANDER LEMPICKI	N 36 25/08/89 \$384,576	CRAIG 89-NE-345	
WORKSHOP ON OPTICAL NEURAL NETWORKS UNIV OF COLORADO	KELVIN WAGNER	N 06 07/09/89 \$22,570	CRAIG 89-NE-355	
VLSI IMPLEMENTATION OF NEUROMORPHIC LEARNING NETWORKS FELLORE	JOSHUA ALSPECTOR	N 23 20/09/89 \$495,000	A CRAIG 89-NE-408	\$159,000 01/03/90 \$159,000
ELECTRONIC REALIZATION OF A HOPFIELD NET WITH SUPERVISED LEARNING SCHEME SOUTHERN ILLINOIS UNIVERSITY	C.L.J. HU	N 12 26/09/89 \$64,571	CRAIG 89-NE-414	
CONNECTIONIST LEARNING ALGORITHMS FOR TEMPORAL PROCESSING AND MULTI-SCALE SEARCH NORTHEASTERN UNIVERSITY	RONALD WILLIAMS	N 36 03/07/89 \$306,124	GILES 89-NE-309	
AN INFORMATION THEORETIC APPROACH TO DISTRIBUTED INFERENCE AND LEARNING CALIFORNIA INSTITUTE OF TECHNOLOGY	RODNEY GOODMAN	N 28 05/07/89 \$340,000	A GILES 89-NE-311	\$148,858 01/10/89 \$340,000

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THERMODYNAMIC NEURAL NETWORK MODELS FOR HIGH-SPEED RESOURCE ALLOCATION UNIV OF MARYLAND	KANAL	N 36 11/07/89 \$283,266	GILES 89-NE-318	
PAROWARE IMPLEMENTATIONS AND APPLICATIONS OF NEURAL NETWORK ARCHITECTURES JET PROPULSION LABORATORY	THAKCOR	N 18 13/07/89 \$400,000	A GILES 89-NE-320	\$200,000 01/10/89 \$400,000
CONFERENCE OF CELLULAR AUTOMATA: THEORY AND EXPERIMENT LOS ALAMOS SCIENTIFIC LAB (CALIF UNIV)	GUTOWITZ	N 06 14/07/89 \$6,000	GILES 89-NE-321	
PROPOSAL FOR A COMPUTER AIDED DESIGN PACKAGE FOR DESIGNERS OF DIGITAL OPTICAL COMPUTERS FUTGERS - THE STATE UNIVERSITY	MURDOCCA	N 36 17/07/89 \$791,894	GILES 89-NE-322	
DYNAMICS OF DISTRIBUTED COMPUTATION XEROX RESEARCH CENTER	HUBERMAN	N 24 18/07/89 \$265,707	GILES 89-NE-323	
VLSI IMPLEMENTATION OF NEUROMORPHIC LEARNING NETWORKS ELLCORE	ALSPECTOR	N 23 18/07/89 \$5,198,230	A GILES 89-NE-324	\$212,000 01/12/89 \$519,823
STUDY OF III-V OPTOELECTRONIC NEURAL BUILDING BLOCKS UNIV OF COLORADO	PANKOVE	N 36 21/07/89 \$791,664	GILES 89-NE-326	
PULSE CODED BIOLOGICALLY MOTIVATED NEURAL-TYPE MCS CIRCUITS OFFICE OF NAVAL RESEARCH	LAU	N 24 24/07/89 \$80,000	A GILES 89-NE-327	\$40,000 01/10/89 \$80,000
ORGANIZATION OF 1990 MEETING OF INTERNATIONAL NEURAL NETWORK SOCIETY JOINTED WITH IEEE INTERNATIONAL NEURAL NETWORK SOCIETY	SZU	N 12 02/08/89 \$10,000	A GILES 89-NE-332	\$10,000 01/10/89 \$10,000

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NEURAL NETWORK ARCHITECTURAL ANALYSIS NAVAL RESEARCH LABORATORY	SZU PAROLD	N 12 02/08/89 \$50,000	GILES 89-NE-333	
FEATURE EXTRACTION AND PROBLEM PARTICIPING FOR SCALING NEURAL- NETWORKS OREGON GRADUATE CENTER FOR STUDY & RESCH	LEEN TODD	N 12 07/08/89 \$172,220	GILES 89-NE-334	
AN OPTOELECTRONIC REALIZATION OF NEURAL NETWORK MODELS CALIFORNIA INSTITUTE OF TECHNOLOGY	YARIV AMNON	R 12 11/09/89 \$374,260	GILES 89-NE-336	
GAS-SOLID TRANSPORT DYNAMICS IN CHEMICAL VAPOR DEPOSITION UNIV OF GEORGIA	LEE M. HOWARD	N 36 10/07/89 \$156,462	LITTON 89-NE-315	
LASER PUMPING OF THE KINETICS AND DYNAMICS OF III-V SEMICONDUCTOR GROWTH UNIV OF COLORADO	LEONE STEPHEN	R 36 10/07/89 \$334,315	LITTON 89-NE-317	
KINETIC ASPECTS OF LATTICE MISMATCH IN MOLECULAR BEAM EPITAXIAL GROWTH ON PLAIN AND PATTERNED SUBSTRATES UNIV OF SOUTHERN CALIFORNIA	MADHUKAR ANUPAM	R 36 28/07/85 \$600,000	A LITTON 89-NE-329	\$200,000 01/12/89 \$600,000
ELECTRONIC STRUCTURE AND MECHANICAL PROPERTIES OF GRAIN BOUNDARIES MASSACHUSETTS INSTITUTE OF TECHNOLOGY	JOANADPOLLOS JOHN	R 36 01/08/89 \$449,500	LITTON 89-NE-331	
MRS SYMPOSIUM ON "IMPURITIES, DEFECTS, AND DIFFUSION IN SEMICONDUCTORS: BULK AND LAYERED STRUCTURES" MATERIALS RESEARCH SOCIETY	BALLANCE JOHN	N 12 28/08/89 \$5,000	LITTON 89-NE-346	
MRS SYMPOSIUM E ON "PROPERTIES OF II-VI SEMICONDUCTORS: BULK CRY, EPITAXIAL FILMS, QUANTUM WELL STRUCTURES, & DILUTE MAGNETIC SYS MATERIALS RESEARCH SOCIETY	BALLANCE JOHN	N 06 28/08/89 \$5,000	LITTON 89-NE-347	

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INDIUM AND ANTIMONY BASED III-V MICROSTRUCTURES WITH NOVEL ELECTRONIC PROPERTIES CALIFORNIA INSTITUTE OF TECHNOLOGY	MC GILL	R 36 28/08/89 \$765,416	LITTON 89-NE-348	
POST-NUCLEATION HETEROEPIITAXY IN POORLY LATTICE MATCHED SYSTEMS	THOMPSON	R 36 28/08/89 \$505,690	LITTON 89-NE-349	
EVALUATION OF THE FEASIBILITY & THE COST OF HCCOTE EPITAXIAL LAYER GROWN BY MOLECULAR BEAM EPITAXY ON GaTe, CdZnTe & GaAs SUBSTRATE EPIR LTD.	FAURIE	N 06 31/08/89 \$39,312	A LITTON 89-NE-351	\$39,312 15/12/89 \$39,312
DECAY OF MOLECULES AT CORRUGATED SOLID SURFACES AND THIN FILMS	LEUNG	N 24 06/09/89 \$44,859	LITTON 89-NE-353	
RELAXATION IN COMPLEX SYSTEMS (CONFERENCES)	NGAI	N 12 07/09/89 \$57,000	D LITTON 89-NE-354	
ELUCIDATION OF DMVPE GROWTH MECHANISMS	STRINGFELLOW	R 36 13/09/89 \$95,888	LITTON 89-NE-359	
A NEW OPTICAL-PROBING SYSTEM FOR VLSI TESTING USING PHASE MODULATION AND DIFFRACTION PATTERN PROBING BEAMS UNIV OF WASHINGTON	YEE	N 36 27/09/89 \$320,460	LITTON 89-NE-415	
INTERFACE PHENOMENA IN METAL MATRIX COMPOSITES	RAJ	N 36 06/07/89 \$375,000	A ROSENSTEIN 89-NE-313	\$120,000 01/12/89 \$375,000
FUNDAMENTAL CONCEPTS RELATING LOCAL ATOMIC ARRANGEMENT, DEFORMATION AND FRACTURE OF INTERMETALLIC ALLOYS UNIV OF VIRGINIA	A. STARKE, JR. J. A. WERT & E.	R 36 07/07/89 \$415,384	A ROSENSTEIN 89-NE-314	\$134,939 01/01/90 \$419,894

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THE EFFECT OF SURFACE MICROSTRUCTURE ON THE ELECTROCHEMICAL BEHAVIOR OF SOLID ELECTRODES (GEORGE WASHINGTON UNIVERSITY)	DE LEVIE	N 24 11/08/89 \$390,038	ROSENSTEIN 89-NE-337	
HYDROGEN DIFFUSION AND TRAPPING IN HIGH-STRENGTH LIGHTWEIGHT ALLOYS SRI INTERNATIONAL	POUNC	N 24 21/08/89 \$169,486	ROSENSTEIN 89-NE-343	
MICROSTRUCTURAL EFFECTS IN SILICIDE FILM GROWTH STATE UNIVERSITY OF NEW YORK	HARRIS	N 36 14/09/89 \$286,752	ROSENSTEIN 89-NE-362	
COMPUTATIONAL AND EXPERIMENTAL INVESTIGATION OF BOUNDARY SCATTERING IN THIN CONDUCTORS BOWLING GREEN STATE UNIVERSITY	BOUGHTON	N 36 14/09/89 \$271,060	ROSENSTEIN 89-NE-363	
ALLOYING AND STRENGTH IN REFRACTORY BERYLLIDES STATE UNIVERSITY OF NEW YORK	CHAKI	N 36 14/09/89 \$306,382	ROSENSTEIN 89-NE-364	
NUCLEATION AND GROWTH OF NANOCCLUSERS WASHINGTON STATE UNIVERSITY	CROWE	N 36 14/09/89 \$750,000	ROSENSTEIN 89-NE-365	
EFFECT OF APB ENERGY AND SLIP VECTOR ON HIGH CYCLE FATIGUE IN INTERMETALLIC COMPOUNDS CARMOUTH COLLEGE	BAKER	N 36 14/09/89 \$525,296	ROSENSTEIN 89-NE-367	
TRANSFORMATION AND DUCTILE-PHASE TOUGHENING IN GAMMA + BETA TI-AL-BASE ALLOYS CLEMSON UNIVERSITY	GRUJICIC	N 36 14/09/89 \$147,326	ROSENSTEIN 89-NE-369	
SURFACE AND SOLVEGE SEGREGATION AND THE INFLUENCE OF MAGNETISM SYRACUSE UNIVERSITY	DOWDEN	N 36 14/09/89 \$268,176	ROSENSTEIN 89-NE-370	

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MICROSTRUCTURE EVOLUTION IN THE PRESENCE OF CONSTRAINTS AND ITS IMPLICATIONS ON THE PROPERTIES OF Mg-Li AND Ni-Al COMPOSITES UNIV OF CINCINNATI	SEKHAR	N 36 14/09/89 \$391,962	ROSENSTEIN 89-NE-371	
BRAIN BOUNDARY EFFECTS IN ORDERED INTERMETALLIC ALLOYS ILLINOIS INSTITUTE OF TECHNOLOGY	DOLLAR	N 36 14/09/89 \$424,976	ROSENSTEIN 89-NE-373	
FRACTAL CHARACTERIZATION AND PREDICTION OF ALLUMINIDE MICROSTRUCTURES USING DIGITAL IMAGE PROCESSING TENNESSEE TECHNOLOGICAL UNIVERSITY	HOY	N 36 14/09/89 \$271,095	ROSENSTEIN 89-NE-374	
MODEL DEVELOPMENT FOR SUBGRAIN GROWTH DURING RECOVERY IN AL, CU, NI, AND FE UNIV OF TEXAS	VARMA	N 36 14/09/89 \$447,201	ROSENSTEIN 89-NE-375	
THE EFFECT OF SURFACE MICROSTRUCTURE ON THE ELECTROCHEMICAL BEHAVIOR OF SOLID ELECTRODES GEORGETOWN UNIVERSITY	DE LEVIE	N 36 14/09/89 \$390,038	ROSENSTEIN 89-NE-377	
USE OF PAYLEIGH WAVES FOR QUANTITATIVE EVALUATION OF SURFACE IRREGULARITIES UNIV OF PUERTO RICO	ALEMAR	N 36 14/09/89 \$162,360	ROSENSTEIN 89-NE-379	
A STUDY OF FUSION ZONE MORPHOLOGY FOR METAL MATRIX COMPOSITES UNIV OF TENNESSEE / SPACE INSTITUTE	MCCAY	N 36 14/09/89 \$497,634	ROSENSTEIN 89-NE-380	
SCANNING TUNNELING MICROSCOPY AND PERFORMANCE MODIFIED SURFACES UNIV OF CONNECTICUT	OTTER	N 36 14/09/89 \$310,721	ROSENSTEIN 89-NE-381	
A NANOSTRUCTURAL DESIGNING AND CHARACTERIZATION OF HIGH TEMP COMP MODULATED FILMS IN RELATION TO THE SUPERMODULUS EFFECT UNIV OF CALIFORNIA	ZAERA	N 36 14/09/89 \$305,537	ROSENSTEIN 89-NE-383	

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THE EFFECT OF MICROSTRUCTURE AND ENVIRONMENT OF FATIGUE AND FRACTURE TOUGHNESS OF INTERMETALLIC TIBAL (OUTHERN UNIV.--DEPT. OF MECHANICAL ENG.	MIRSHAMS A. REZA	N 36 14/09/89 \$328,398	ROSENSTEIN 89-NE-385	
MICROSTRUCTURE EVOLUTION IN THE CORROSION/OXIDATION OF METAL ALLOY FILMS NORTHEASTERN UNIVERSITY	NOWAK WELVILLE	N 36 14/09/89 \$467,856	ROSENSTEIN 89-NE-387	
PROCESSING AND CHARACTERIZATION OF NANOCRYSTALLINE MATERIALS ICMA STATE UNIV OF SCIENCE AND TECH	CHUMLEY LEONARD	N 36 14/09/89 \$507,735	ROSENSTEIN 89-NE-389	
THERMOPHYSICAL PROPERTIES OF LIQUID AND SOLID METALS AND SELECTED ALLOYS BY CONTAINERLESS LEVITATION METHODS STATE UNIVERSITY	MARGRAVE JOHN	N 36 14/09/89 \$607,679	ROSENSTEIN 89-NE-391	
DEPOSITION OF METALLIC THIN FILMS FROM THE DECOMPOSITION OF ORGANOMETALLIC COMPOUNDS SYRACUSE UNIVERSITY	SPENCER JAMES	N 36 14/09/89 \$698,214	ROSENSTEIN 89-NE-392	
STUDY OF NUCLEATION AND GROWTH RATES FOR THE PRODUCTION OF PARICULATE MATERIALS UNIV OF ICMA	RETHATSCHE DAVID	N 36 14/09/89 \$460,696	ROSENSTEIN 89-NE-393	
MECHANICAL BEHAVIOR AND FLOW MECHANISMS IN TAILORED REFRACTORY METAL COMPOSITES WRIGHT STATE UNIVERSITY	WEISS ISAAC	N 36 14/09/89 \$461,291	ROSENSTEIN 89-NE-394	
THERMOMECHANICAL PROCESS DESIGN AND OPTIMIZATION FOR AEROSPACE MATERIALS UNIV OF MISSOURI	EL-GIZAWY AHMED SHERIF	N 36 14/09/89 \$187,150	ROSENSTEIN 89-NE-395	
EXPERIMENTAL AND THEORETICAL STUDIES OF MATRIX-FIBER INTERFACES IN LOW & HIGH TEMP COMP USING ATOMIC FORCE & SCANNING TUNNELING MICRO UNIV OF MISSOURI	BOWLES C. QUINTON	N 36 14/09/89 \$510,101	ROSENSTEIN 89-NE-396	

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KNOWLEDGE BASED SYNTHESIS OF MICROSTRUCTURES CRECEL UNIVERSITY	APELIAN CIRAN	N 36 14/09/89 \$750,000	ROSENSTEIN 89-NE-397	
SIE PROCESSED MICROSTRUCTURES USING REFRACTORY SILICIDES FOR PIEZOELECTRIC SENSORS AND ACTUATORS NEW JERSEY INSTITUTE OF TECHNOLOGY	A, MISRA CURGAMADHAB MIS	N 36 20/09/89 \$200,735	ROSENSTEIN 89-NE-407	
MECHANISMS OF MONOTONIC AND CYCLIC SUBCRITICAL CRACK GROWTH IN ADVANCED HIGH MELTING POINT LOW-DUCTILITY INTERMETALLICS UNIV OF CALIFORNIA	RITCHIE ROBERT	N 36 25/09/89 \$537,955	ROSENSTEIN 89-NE-412	
IMPACT BEHAVIOR OF FIBER REINFORCED CERAMIC COMPOSITES UNIV OF WYOMING	COON DENNIS	N 36 27/09/89 \$375,000	ROSENSTEIN 89-NE-416	
THERMODYNAMIC AND KINETIC STABILITY OF REFRACTORY MATERIALS AT ULTRA-HIGH TEMPERATURES NATIONAL INST. OF STANDARDS & TECHNOLOGY	HASTIE JOHN	N 36 13/09/89 \$375,000	SCHICLER 89-NE-358	
CHEMICAL VAPOR DEPOSITION OF ZRTO4 COATINGS FOR OXIDATION PROTECTION OF CARBON/CARBON COMPOSITES LOUISIANA STATE UNIVERSITY	GRIFFIN GREGORY	N 36 14/09/89 \$214,009	SCHICLER 89-NE-366	
SILICON NITRIDE THIN FILMS FOR PASSIVATION OF AL BONCPADS UNIV OF ARKANSAS	ULRICH RICHARD	N 36 14/09/89 \$259,702	SCHICLER 89-NE-368	
STATISTICAL METHODS FOR MICROSTRUCTURE CHARACTERIZATION USING ULTRASONIC SCATTERING ILLINOIS INSTITUTE OF TECHNOLOGY	SANIE JAFAR	N 36 14/09/89 \$299,124	SCHICLER 89-NE-372	
MICROSTRUCTURAL DESIGN, SYNTHESIS AND PROCESSING OF ADVANCED CERAMIC MATERIALS UNIV OF NOTRE DAME	MILLER ALBERT	N 36 14/09/89 \$687,780	SCHICLER 89-NE-374	

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COLLOIDAL PROCESSING OF ALUMINUM NITRIDE CERAMICS: USE OF STERIC STABILIZATION TO CONTROL MICROSTRUCTURE CASE WESTERN RESERVE UNIVERSITY	FEKE	N 36 14/09/89 \$123,222	SCHIDLER 89-NE-378	
PASIC STUDIES IN CERAMIC DIELECTRICS FOR MICROWAVE APPLICATIONS NEW YORK STATE COLLEGE OF CERAMICS	MCMALE	N 36 14/09/89 \$187,109	SCHIDLER 89-NE-382	
THE DESIGN, PREPARATION AND DEVELOPMENT OF NEW REFRACTORY AND CERAMIC THIN-FILM MATERIALS SYRACUSE UNIVERSITY	SPENCER	N 36 14/09/89 \$606,026	SCHIDLER 89-NE-384	
CHARACTERIZATION OF MECHANICAL BEHAVIOR OF CERAMICS UNDER QUASI- STATIC AND DYNAMIC LOADINGS UNIV OF OKLAHOMA	KHAN	N 36 14/09/89 \$452,698	SCHIDLER 89-NE-386	
ELECTRON CYCLOTRON RESONANCE PLASMA DEPOSITION OF ADVANCED ELECTRONIC MATERIALS ARIZONA STATE UNIVERSITY	RAUPF	N 36 14/09/89 \$504,772	SCHIDLER 89-NE-388	
QUANTITATIVE STUDY OF MICROSTRUCTURAL DAMAGE AND ITS INFLUENCE ON FESICUAL STRENGTHS OF CARBON-CARBON COMPOSITES CLARKSON UNIVERSITY	YORGARTIS	N 36 14/09/89 \$302,234	SCHIDLER 89-NE-390	
PHOTO-ELECTROIC GRAIN BOUNDARY EFFECTS IN CERAMICS NEW YORK STATE COLLEGE OF CERAMICS	CORONAPO	N 36 15/09/89 \$397,002	SCHIDLER 89-NE-398	
SOL-GEL PROCESSING OF THIN-FILM LEAD GERMANATE FERROELECTRICS TUFTS UNIVERSITY	RYDER, JR.	N 36 15/09/89 \$318,991	SCHIDLER 89-NE-399	
GROWTH AND CHARACTERIZATION OF PEROVSKITE MIXED CRYSTALS LOUISIANA STATE UNIVERSITY	TEMPLE	N 36 15/09/89 \$177,065	SCHIDLER 89-NE-400	

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PREPARATION AND PROPERTIES OF CERAMIC-METAL COMPOSITES (COLORADO SCHOOL OF MINES)	READEY	N 37 15/09/89 \$511,333	SCHIDLER 89-NE-401	
ON THE DEGRADATION OF ELECTRICAL PROPERTIES OF SEMICONDUCTORS UNIV OF CONNECTICUT	GALLIGAN	N 36 15/09/89 \$239,295	SCHIDLER 89-NE-402	
PRESSURELESS SINTERING OF CERAMIC COMPOSITES UNIV OF NEW MEXICO	WEISER	N 36 15/09/89 \$146,426	SCHIDLER 89-NE-403	
OPTICAL ANALYSIS OF SURFACE PROCESSES IN CHEMICAL VAPOR DEPOSITION STEVENS INSTITUTE OF TECHNOLOGY	WHITTAKER	N 36 15/09/89 \$293,093	SCHIDLER 89-NE-404	
PRESSURELESS CENSIFICATION OF CERAMIC MATRIX COMPOSITES UNIV OF MISSOURI	RAHAMAN	N 36 15/09/89 \$542,757	SCHIDLER 89-NE-405	
INHIBITING THE OXIDATION OF CARBON BY ELECTROCHEMICAL INTERCALATION OF BROMINE STATE UNIVERSITY OF NEW YORK	L. CHUNG	N 36 15/09/89 \$667,658	SCHIDLER 89-NE-406	
SUPERCOMPUTER TIME AT KIRTLAND AFB AIR FORCE WEAPONS LAB	KURTH	N 09 21/09/89 \$30,000	A SCHIDLER 89-NE-410	\$30,000 01/10/89 \$30,000
HIGH TEMPERATURE OXIDATION MECHANISMS AND KINETICS OF REFRACTORY CARBIDES JOHNS HOPKINS UNIVERSITY	BARGERON	N 36 27/09/89 \$127,600	SCHIDLER 89-NE-417	
SUPERCONDUCTING WEISSNER EFFECT BEARINGS FOR CRYogenic TURBOMACHINES CPREARE INC. RESEARCH & DEVELOPMENT INC	IANNELLO	N 24 10/07/89 \$495,994	A WEINSTOCK 89-NE-316	\$0 01/11/89 \$249,997

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MAGNETIC AND ELECTRIC PROPERTIES OF UNIQUE LIQUID AND SOLID COMPOSITES CLARKSON UNIVERSITY	ARAJI	N 36 07/08/89 \$240,843	D WEINSTOCK 89-NE-335	
SIGURDS				
MICROWAVE NONDESTRUCTIVE TESTING: A NUMERICAL AND EXPERIMENTAL EFFORT COLORADO STATE UNIVERSITY	ZOUGH	N 12 16/08/89 \$61,438	D WEINSTOCK 89-NE-338	
R.				
STABILITY ANALYSIS OF PHASE-LOCKED STATES IN JOSEPHSON JUNCTION ARRAYS GEORGIA INSTITUTE OF TECH	WIESENFELD	N 36 21/08/89 \$151,573	D WEINSTOCK 89-NE-341	
KURT				
BASIC OPTICAL STUDIES OF HIGH TC OXIDE SUPERCONDUCTORS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	CRESSELHAUS	N 36 21/08/89 \$375,000	A WEINSTOCK 89-NE-344	\$125,000 15/01/90 \$375,000
MILORED				
STABILITY ANALYSIS OF PHASE-LOCKED STATES IN JOSEPHSON JUNCTION ARRAYS GEORGIA INSTITUTE OF TECH	WIESENFELD	N 36 28/08/89 \$148,485	WEINSTOCK 89-NE-350	
KURT				
SYNTHESIS AND STUDY OF HIGH TC MATERIALS FOR SUPERCONDUCTING ELECTRONICS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	TEOROW	N 36 21/08/89 \$404,998	A WEINSTOCK 89-NE-352	\$134,998 15/12/89 \$404,998
PAUL				
USE OF HIGH TC SUPERCONDUCTING MATERIALS IN MAGNETIC BEARINGS UNIV OF COLORADO	BARNES	N 36 13/09/89 \$620,332	D WEINSTOCK 89-NE-357	
FRANK				
PHYSICS AND TECHNIQUES FOR THE INVESTIGATION OF THE PROPERTIES OF ULTRA SMALL SYSTEMS CORNELL UNIVERSITY	PARPIA	R 24 21/09/89 \$190,000	A WEINSTOCK 89-NE-409	\$100,000 15/01/90 \$190,000
J.				
QUASIOPTICAL JOSEPHSON OSCILLATOR UNIV OF ROCHESTER	WENGLER	N 36 25/09/89 \$3,000,000	WEINSTOCK 89-NE-413	
MICHAEL				

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FEMTOSECOND CARRIER PROCESSES IN COMPOUND SEMICONDUCTORS AND REAL TIME SIGNAL PROCESSING (CORNELL UNIVERSITY)	J KRUSIUS	R 36 05/07/89 \$1,849,830	WITT 89-NE-312	
JOINT SERVICES ELECTRONICS PROGRAM SUPPORT OF THE BASIC RESEARCH PROGRAM AT THE ELECTRONICS RESEARCH LABORATORY UNIV OF CALIFORNIA	HU CHENMING	R 36 28/07/89 \$2,626,033	WITT 89-NE-330	
ULTRAFAST CARRIER DYNAMICS IN III-V SEMICONDUCTORS MICROSTRUCTURES NEW YORK UNIVERSITY	ALFARO ROBERT	R 36 13/09/89 \$572,761	WITT 89-NE-361	
CLASS E RECTIFIERS AND THEIR APPLICATIONS IN DC/DC CONVERTERS WRIGHT STATE UNIVERSITY	KAZIMIERCZUK MARIAN	N 24 25/09/89 \$140,288	WITT 89-NE-411	

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10TH INTERNATIONAL BIOPHYSICS CONGRESS BIOPHYSICAL SOCIETY	EISENMAN	N 12 10/07/89 \$10,000	BERRY 89-NL-299	
INTERNEURONAL INFORMATION PROCESSING CORNELL UNIVERSITY	GARONER	N 36 10/07/89 \$395,585	BERRY 89-NL-290	
DYNAMICS IN IN VIVO COPOLYMER RELEASE UNIV OF NORTH CAROLINA	WIGHTMAN	N 36 28/07/89 \$308,584	BERRY 89-NL-297	
MOLECULAR & CELLULAR MECHANISMS OF ALCOHOL & ANESTHETICS NEW YORK ACADEMY OF SCIENCES	RUBIN	N 12 09/08/89 \$10,000	BERRY 89-NL-301	
EXTRATHALAMIC MODULATION OF CORTICAL RESPONSIVENESS UNIV OF CALIFORNIA	FOLTE	R 36 12/09/89 \$542,199	BERRY 89-NL-317	
TYROSINE, TRYPTOPHAN, AND PERFORMANCE MASSACHUSETTS INSTITUTE OF TECHNOLOGY	WURTMAN	P 36 25/09/89 \$507,444	BERRY 89-NL-324	
EVALUATION OF HYPERBARIC OXYGEN THERAPY IN THE TREATMENT OF SPINAL CORD INJURY USING THE RABBIT SPINAL STROKE MODEL ARMED FORCES INSTITUTE OF PATHOLOGY	HARRISON	N 12 11/08/89 \$15,746	A CERVENY 89-NL-303	\$15,746 30/09/89 \$15,746
NICOTINIC RECEPTORS FROM EXTREME ENVIRONMENTS TO DEGRADE HALOGENATED SOLVENTS U. K. RESEARCH	COMBIE	N 24 25/09/89 \$201,460	CERVENY 89-NL-321	
4TH INTERNATIONAL SYMPOSIUM ON BIOLOGICAL REACTIVE INTERMEDIATES UNIV OF ARIZONA	SIPES	N 12 25/09/89 \$10,000	CERVENY 89-NL-322	

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PRODUCTION OF REACTIVE OXYGEN SPECIES BY POLYPALOGENATED CYCLIC HYDROCARBONS (PCH) UNIVERSITY OF CALIFORNIA	STICH	N 36 25/07/89 \$297,095	CERVENY 89-NL-323	
IRRATIONALITIES VERSUS MISINTERPRETATIONS FORMAL VERSUS PSYCHOLOGI CAL STRUCTURE OF THE DECISION SPACE BROWN UNIVERSITY	ADAMS	N 36 07/07/89 \$335,781	FREGLY 89-NL-294	
AUTOMATICITY AND CONTROL IN COGNITIVE PROCESSING PENNSYLVANIA UNIVERSITY OF THE NEGEV	TZELGOV	N 36 07/07/89 \$105,650	FREGLY 89-NL-285	
VISUAL PERCEPTION OF FEATURES AND OBJECTS UNIV OF CALIFORNIA	TREISMAN	R 36 07/07/89 \$525,198	FREGLY 89-NL-287	
PERCEPTIVE AND ATTENTIVE VISUAL INFORMATION PROCESSING JOHNS HOPKINS UNIVERSITY	EGETH	R 48 07/07/89 \$507,449	FREGLY 89-NL-234	
LEARNING FROM TEXT: A COGNITIVE CONTROL PERSPECTIVE WASHINGTON STATE UNIVERSITY	WHITNEY	N 36 27/07/89 \$228,677	FREGLY 89-NL-294	
FORGETTING IN WORKING MEMORY COLUMBIA UNIVERSITY	COSMER	N 36 27/07/89 \$302,079	FREGLY 89-NL-295	
LANGUAGE PRODUCTION FROM VARYING MEMORY SOURCES UNIV OF MASSACHUSETTS	ROSENBAUM	N 36 27/07/89 \$233,763	FREGLY 89-NL-296	
INVESTIGATION OF THE SPREAD OF ATTENTION IN THE VISUAL FIELD UNIV OF CALIFORNIA	LABERGE	N 36 31/07/89 \$287,083	FREGLY 89-NL-299	

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TOWARDS AN INTEGRATION OF THE NON-INVASIVE MENTOCOLOGIES OF COGNITIVE NEUROSCIENCE: THE ELEVENTH CARMEL WORKSHOP UNIV OF ILLINOIS	CONCHIN	N 06 11/08/89 \$47,313	A FREGLY 89-NL-302	\$25,000 15/11/89 \$25,000
GUIDANCE OF HUMAN VISUAL ATTENTION BY PARALLEL PROCESSING MODULES MASSACHUSETTS INSTITUTE OF TECHNOLOGY	WOLFE	N 36 11/08/89 \$425,673	FREGLY 89-NL-304	
A THEORY FOR LEARNING FROM EXAMPLES DEPPSIA INSTITUTE OF TECH	CATRAMBONE	N 24 11/08/89 \$107,723	FREGLY 89-NL-305	
TOWARD A UNIFIED CODING ACCOUNT OF COMPATIBILITY PHENOMENA FLOPOLE RESEARCH FOUNDATION	PROCTOR	N 36 11/08/89 \$382,034	FREGLY 89-NL-306	
RECOGNIZING LETTERS AND OBJECTS: PRIMING, TIME COURSE, AND RELATIONAL FEATURES UNIV OF SOUTH FLORIDA	SANOCKI	N 36 11/08/89 \$198,636	FREGLY 89-NL-307	
THE ROLE OF WORD FREQUENCY AND THE PROPER/Common DIMENSION IN SPEECH HASKIN LABORATORIES, INC.	WHALEN	N 36 11/08/89 \$290,825	FREGLY 89-NL-308	
THE EFFECTS OF STRESS ON JUDGMENT AND DECISION MAKING IN DYNAMIC TASKS UNIV OF COLORADO	HAMMCNO	N 24 25/08/89 \$360,342	FREGLY 89-NL-309	
THE FOURTEENTH INTERNATIONAL SYMPOSIUM ON ATTENTION AND PERFORMANCE: A SILVER JUBILEE UNIV OF MICHIGAN	KORNELUM	N 24 25/08/89 \$23,368	A FREGLY 89-NL-311	\$23,368 01/10/89 \$23,368
CONFERENCE ON EYE MOVEMENTS AND VISUAL COGNITION UNIV OF MASSACHUSETTS	RAYNER	N 12 25/08/89 \$13,150	A FREGLY 89-NL-312	\$13,150 01/01/90 \$13,150

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NEURAL MECHANISMS MEDIATING VISUAL SELECTIVE ATTENTION LOS ALAMOS SCIENTIFIC LAB (CALIF UNIV)	AINE CHERYL	N 36 05/09/89 \$397,800	FREGLY 89-NL-316	
COMMITTEE ON BASIC RESEARCH ON HUMAN FACTORS NATIONAL ACADEMY OF SCIENCES	VAN COTT HAROLD	N 08 18/09/89 \$45,689	A FREGLY 99-NL-320	\$45,689 01/02/90 \$92,645
SIGNAL-AND LISTENER-BASED FACTORS IN COMPLEX AUDITORY PATTERN PERCEPTION YALE UNIVERSITY	SAMUEL ARTHUR	R 60 07/07/89 \$796,586	TANGNEY 89-NL-286	
REFERENCE FRAMES IN VISION UNIV OF ROCHESTER	HAYHCE MARY	N 36 10/07/89 \$470,370	TANGNEY 89-NL-291	
VISUAL PERCEPTION OF OBJECT MOTION DURING EYE AND SELFMOVEMENTS INSTITUTE FOR PERCEPTION RVO-TNC	WERTHEIM A	N 36 10/07/89 \$144,000	TANGNEY 89-NL-292	
COMPUTATIONAL MODEL OF AUDITORY PROCESSING LOS ALAMOS SCIENTIFIC LAB (CALIF UNIV)	SINEX DONAL	N 36 28/07/89 \$411,443	TANGNEY 89-NL-293	
DIGITAL THEORY OF AUDITORY PATTERN RECOGNITION MARQUETTE UNIVERSITY	GUASTELLIC STEPHEN	N 36 08/08/89 \$203,193	TANGNEY 89-NL-300	
THE APPEARANCE OF TEMPORALLY-MODULATING AND STATIONARY STEREO PATTERNS STATE UNIVERSITY OF NEW YORK - PSCH FCN	DAVIS ELIZABETH	N 60 25/08/89 \$524,466	TANGNEY 89-NL-310	
MECHANISMS OF SPATIAL LOCALIZATION FOR AIMED MOVEMENTS WASHINGTON UNIVERSITY	ABRAMS RICHARD	N 60 01/09/89 \$435,896	TANGNEY 89-NL-313	

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MECHANISMS OF VISUAL SURFACE FORMATION, MODULATION, AND PERCEPTION (CONTRIBUTION OF INFORMATION FROM THE MECHANISMS OF ACTION & STEREO UNIV OF NEVADA	HARRINGTON	N 60 01/09/89 \$1,709,442	TANGNEY 89-NL-314	
SUPPORT OF THE ACTIVITIES OF THE COMMITTEE ON HEARING, BIOACOUSTIC & AND BIOMECHANICS OFFICE OF NAVAL RESEARCH	O'HARE	N 12 01/09/89 \$30,000	TANGNEY 89-NL-315	
SUSTAINED ATTENTION IN MILITARY PERSONNEL DURING A COGNITIVELY DEM ANDING VIGILANCE TASK UNIV OF ALABAMA	TOMPCROWSKI	N 12 12/09/89 \$5,263	TANGNEY 89-NL-318	
WHAT GOVERNS THE PRECISION OF NEURAL COMPUTATIONS RESPONSIBLE FOR HUMAN SPATIAL DISCRIMINATIONS YALE UNIVERSITY SCHOOL OF MEDICINE	HIRSCH	R 36 12/09/89 \$734,031	TANGNEY 89-NL-319	

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EVALUATION OF BOOTSTRAP AND PARAMETRIC STATISTICAL ANALYSIS OF PERCENTILE CONTRASTS INDIANA UNIVERSITY-PURDUE UNIV AT INDEPL	RASMUSSEN JEFFREY	N 08 17/07/89 \$25,452	BAROUCH 89-NM-658	
NEW FREQUENCY DOMAIN APPROACHES FOR MODELLING SYSTEMS AND SIGNALS UNIV OF RHODE ISLAND	KUMARESAN RAMDAS	N 36 17/07/89 \$217,151	BAROUCH 89-NM-659	
STATISTICAL TECHNIQUES FOR SIGNAL PROCESSING UNIV OF PENNSYLVANIA	KASSAM SALEEM	N 36 26/07/89 \$232,118	A BAROUCH 89-NM-664	\$71,398 01/11/89 \$232,118
NEED-RELATED METHODOLOGIES FOR ESTIMATING MEASURES OF RELIABILITY/ MAINTAINABILITY AND RELIABILITY OHIO STATE UNIV OF SCIENCE AND TECH	CAVIC H.	N 24 02/08/89 \$245,771	BAROUCH 89-NM-666	
COMPUTATION AND COMMUNICATION CONSTRAINTS FOR DISTRIBUTED ESTIMATION SYSTEMS UNIV OF WISCONSIN	GURNER JOHN	N 24 30/08/89 \$44,080	BAROUCH 89-NM-691	
DYNAMIC MODELING OF JOINT LIFETIMES, OF AGING NOTIONS, OF MARGINALIZATION AND OF MULTI-UNIT MINIMAL REPAIRS UNIV OF ARIZONA	SHAKED MOSHE	R 36 06/09/89 \$254,923	BAROUCH 89-NM-697	
INCREASING THE MARGIN OF STABILITY OF ARBITRARILY FINITE MODES OF FLEXIBLE LARGE SPACE STRUCTURES WITH DAMPING UNIV OF VIRGINIA	LASIECKA IRENA	R 12 17/07/89 \$100,976	CROWLEY 89-NM-650	
ASYMPTOTICALLY EFFICIENT ADAPTIVE CONTROL OF STOCHASTIC SYSTEMS UNIV OF WISCONSIN	AGRAWAL RAJEEV	N 24 17/07/89 \$100,270	CROWLEY 89-NM-654	
ROBUST OUTPUT FEEDBACK CONTROL OF NONLINEAR SYSTEMS MICHIGAN STATE UNIVERSITY	KHALIL PASSAN	N 24 08/08/89 \$153,902	D CROWLEY 89-NM-671	

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GENERALIZED PREDICTIVE CONTROL OF NONLINEAR DYNAMIC SYSTEMS UNIV OF CALIFORNIA	HESS RONALD	N 24 21/08/89 \$62,938	D CROWLEY 89-NM-694	
GEOMETRY AND TOPOLOGY OF LINEAR SYSTEMS UNIV OF ROCHESTER	GUEST MARTIN	N 36 06/09/89 \$88,559	D CROWLEY 89-NM-694	
AIMING CONTROL: THEORY AND APPLICATIONS TO DYNAMIC CONTROL SPACE STRUCTURES UNIV OF MICHIGAN	MEERKOV SEMYON	N 24 06/09/89 \$105,000	D CROWLEY 89-NM-695	
DESIGNS AND ESTIMATORS FOR ADAPTIVE CONTROLLERS WITH ROBUST PERFORMANCE ARIZONA STATE UNIVERSITY	TSAKALIS KONSTANTINOS	N 36 06/09/89 \$283,006	CROWLEY 89-NM-696	
ESTIMATION OF COEFFICIENTS IN DISTRIBUTED PARAMETER SYSTEMS TECHNISCHE UNIVERSITEIT OF GRAZ	KUNISCH KARL	N 36 25/09/89 \$57,571	CROWLEY 89-NM-710	
DISTRIBUTED TARGET DETECTION AND TRACKING NORTHWESTERN UNIVERSITY	MAODAC ABRAHAM	R 36 25/09/89 \$370,367	CROWLEY 89-NM-712	
NEW TRENDS IN CONTROL SYSTEM DESIGN UNIV OF MINNESOTA	LEE E.	N 12 27/09/89 \$10,000	CROWLEY 89-NM-717	
SOLVING DISCRETE OPTIMIZATION PROBLEMS USING INTERIOR POINT METHODS UNIV OF PENNSYLVANIA	ANADALINCA G.	N 20 17/07/89 \$124,281	GLASSMAN 89-NM-655	
GLOBAL SOLUTIONS TO EXPLICITLY AND IMPLICITLY DEFINED OPTIMIZATION PROBLEMS GEORGE WASHINGTON UNIVERSITY	FALK JAMES	N 36 24/07/89 \$284,737	GLASSMAN 89-NM-661	

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SPECIAL-CASE ALGORITHMS FOR RECTILINEAR STEINER MINIMAL TREES UNIV OF VIRGINIA	COHOCN J.	N 36 24/07/89 \$2,187,475	GLASSMAN 89-NM-662	
POLYNOMIAL APPROACHES FOR SOLVING 0-1 POLYNOMIAL PROGRAMMING PROBLEMS CLEMSON UNIVERSITY	ADAMS WARREN	N 36 08/08/89 \$205,332	GLASSMAN 89-NM-663	
COMBINATORIAL OPTIMIZATION BY LEARNING STOCHASTIC AUTOMATA UNIV OF MINNESOTA	SHRAGOWITZ EUGENE	N 36 08/09/89 \$245,213	GLASSMAN 89-NM-672	
STUDIES IN INTEGER PROGRAMMING AND MODELING SYSTEMS UNIV OF CALIFORNIA	GEOFFRICN ARTHUR	N 12 08/08/89 \$15,974	GLASSMAN 89-NM-573	
METHODS AND CONVERGENCE ANALYSIS IN LARGE SCALE NONLINEAR OPTIMIZATION NATIONAL INST. OF STANDARDS & TECHNOLOGY	BOGGS PAUL	N 12 09/08/89 \$41,000	A GLASSMAN 89-NM-574	\$41,000 01/10/89 \$41,000
UD VADIS GRAPH THEORY AN ALASKA CONFERENCE ON THE FUTURE OF GRAPH THEORY UNIV OF ALASKA	GIMBEL JOHN	N 01 14/08/89 \$34,097	A GLASSMAN 89-NM-676	\$15,000 01/01/90 \$15,000
PARALLEL AND LARGE-SCALE OPTIMIZATION GEORGE WASON UNIVERSITY	NASH STEPHEN	N 36 21/08/89 \$244,632	GLASSMAN 89-NM-680	
METHODS AND CONVERGENCE ANALYSIS IN LARGE SCALE NONLINEAR OPTIMIZATION UNIV OF NORTH CAROLINA	TOLLE JON	N 12 21/08/89 \$55,240	A GLASSMAN 89-NM-681	\$55,240 01/01/90 \$55,240
EFFICIENT ALGORITHMIC TECHNIQUES FOR COMBINATORIAL PROBLEM (REVISED) PURDUE RESEARCH FOUNDATION	ATALLAH MIKHAIL	N 36 21/08/89 \$281,989	A GLASSMAN 89-NM-682	\$32,241 01/01/90 \$279,989

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SECOND ASILOMAR WORKSHOP ON PROGRESS IN MATHEMATICAL PROGRAMMING SOCIETY FOR INDUSTRIAL & APPLIED MATH	BLOCK	N 01 25/08/89 \$15,000	A GLASSMAN 89-NM-689	\$15,000 01/12/89 \$15,000
THEORY AND METHODS FOR LINEAR PROGRAMMING BASED ON INTERIOR-POINTS AND CENTERING MASSACHUSETTS INSTITUTE OF TECHNOLOGY	FREUND	N 24 30/08/89 \$202,246	GLASSMAN 89-NM-693	
NEW DIRECTIONS IN NETWORK FLOWS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	ORLIN	R 01 15/09/89 \$95,954	A GLASSMAN 89-NM-703	\$86,347 01/01/90 \$86,347
GENETIC ALGORITHMS FOR HARD OPTIMIZATION PROBLEMS UNIV OF NORTH CAROLINA	MICHALEWICZ	N 24 21/09/89 \$130,590	GLASSMAN 89-NM-706	
USING INTERIOR POINT METHODS IN A CUTTING PLANE APPROACH FOR SOLVING INTEGER PROGRAMMING PROBLEMS GENSSELAER POLYTECHNIC INSTITUTE	MITCHELL	N 36 21/09/89 \$201,490	GLASSMAN 89-NM-706	
THE PARALLEL COMPUTATION OF RECURRENCE EQUATIONS WITH AFFINE DEPENDENCES YALE UNIVERSITY	IPSEN	N 36 14/03/89 \$286,192	HOLLAND 89-NM-677	
PARALLEL SOLUTION OF LARGE SYSTEMS OF EQUATIONS PENNSYLVANIA STATE UNIVERSITY	BARLOW	N 36 15/09/89 \$245,211	HOLLAND 89-NM-702	
EVENT ORIENTED DESIGN AND ADAPTIVE MULTITASKING TEMPLE UNIVERSITY SCHOOL OF MEDICINE	LEFKOVITZ	R 24 21/09/89 \$224,591	HOLLAND 89-NM-704	
CONFERENCE ON EXPERT SYSTEMS FOR NUMERICAL COMPUTING PURDUE RESEARCH FOUNDATION	RICE	N 12 25/09/89 \$10,556	HOLLAND 89-NM-709	

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EFFICIENT NUMERICAL METHODS FOR INVERSE SCATTERING PROBLEMS OF GENERAL MAXWELL'S EQUATIONS STATE UNIVERSITY OF NEW YORK	CHEN	N 24 12/07/89 \$216,031	NACHMAN 89-NM-649	
PLASTIC DEFORMATION OF GRANULAR MATERIAL		N 36 17/07/89 \$64,369	A NACHMAN 89-NM-652	\$20,284 01/01/90 \$64,369
STATE UNIVERSITY OF NEW YORK	PITMAN			
RESEARCH IN THE MATHEMATICAL ASPECTS OF SCIENTIFIC COMPUTING		N 36 17/07/89 \$738,832	NACHMAN 89-NM-653	
UNIV OF CHICAGO	CUPONT			
COMPUTATIONAL FLUID DYNAMICS, MECHANICS AND MATHEMATICS AT THE LEMA	HALL	R 36 17/07/89 \$713,171	A NACHMAN 89-NM-656	\$118,017 01/12/89 \$373,427
UNIV OF PITTSBURGH				
THEORETICAL AERODYNAMICS	COLE	R 12 17/07/89 \$80,496	A NACHMAN 89-NM-657	\$80,496 01/11/89 \$80,496
RENSSELAER POLYTECHNIC INSTITUTE				
NON-LINEAR MATHEMATICS APPLIED TO THE SCIENCE OF MATERIALS		N 36 24/07/89 \$971,357	NACHMAN 89-NM-660	
CARNEGIE-MELLON UNIVERSITY	GURTIN			
SYSTEM IDENTIFICATION AND FILTERING OF NONLINEAR CONTROLLED MARKOV PROCESSES BY CANONICAL VARIATE ANALYSIS		R 24 02/08/89 \$465,327	NACHMAN 89-NM-665	
BUSINESS & TECHNOLOGICAL SYSTEMS, INC.	LARIMORE			
SOME TOPICS IN SOLID STATE MATHEMATICS, TRANSMUTATION & INVERSE PROBLEMS		N 36 02/09/89 \$115,859	NACHMAN 89-NM-667	
UNIV OF ILLINOIS	CARROLL			
TECHNIQUES USED TO IDENTIFY INSTABILITIES IN LINEAR WAVE PROPAGATION PROBLEMS		N 14 08/08/89 \$84,748	NACHMAN 89-NM-670	
CLAREMONT GRADUATE SCHOOL	CUMBERBATCH			
	ELLIS			

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FORMATION AND STATISTICAL DESCRIPTION OF THREE-DIMENSIONAL SINGULARITIES IN TURBULENT FLOWS UNIV OF CALIFORNIA, SAN DIEGO	NOVIKOV	N 36 08/08/89 \$454,732	NACHMAN 89-NM-675	\$111,633 30/12/89 \$1,356,143
MULTIVARIABLE CONTROL FOR FLEXIBLE IC PROCESSING STANFORD UNIVERSITY	KAILATH	N 33 21/08/89 \$500,000	A NACHMAN 89-NM-679	
INVERSE SCATTERING: THEORY AND APPLICATIONS NORTHEASTERN UNIVERSITY	DEVANEY	N 36 21/08/89 \$375,667	NACHMAN 89-NM-683	
CENTER FOR ANALYSIS OF HETEROGENEOUS AND NONLINEAR MEDIA NEW YORK UNIVERSITY	KOHN	R 36 22/08/89 \$150,000	A NACHMAN 89-NM-686	\$500,000 01/01/90 \$1,500,000
NONLINEAR OPTICS AND TURBULENCE UNIV OF ARIZONA	NEWELL	N 36 24/08/89 \$1,667,729	A NACHMAN 89-NM-587	\$507,000 01/10/89 \$1,500,000
ACCELERATION OF CHERYSHEV SPECTRAL APPROXIMATIONS OF HYPERBOLIC EQUATIONS TO STEADY STATE FLOPIDIA ATE UNIVERSITY	KOPPIVA	N 24 24/08/89 \$82,753	NACHMAN 89-NM-688	
TRAY II SUPPORT FOR OTHER 2204/A3 INSTRUMENTS AIR FORCE WEAPONS LAB	BURNETTE	N 01 29/08/89 \$10,000	A NACHMAN 89-NM-690	\$10,000 01/10/89 \$10,000
ON THE TURBULENT DYNAMICS GEORGIA TECH RESEARCH CORPORATION	FOX	N 36 30/08/89 \$168,452	NACHMAN 89-NM-692	
RESEARCH IN MATHEMATICS AND COMPUTER SCIENCE: CALCULATION OF THE PROBABILITY OF UNDETECTED ERROR FOR CERTAIN ERROR DETECTION CODES QUALCOMM, INC.	VITEP31	N 12 06/09/89 \$157,761	A NACHMAN 89-NM-698	\$77,000 01/12/89 \$157,761

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THE ASYMPTOTIC THEORY OF THE REFLECTION AND TRANSMISSION OF A PULSED ELECTROMAGNETIC BEAM FIELD AT A PLANAR INTERFACE SEPARATING UNIV OF VERMONT	DOUGSTON	R 05 21/09/89 \$43,713	A NACHMAN 89-NM-707	
SPARSE MATRIX ALGORITHMS FOR PARALLEL COMPUTERS	POTHEN	R 36 25/03/89 \$240,679	NACHMAN 89-NM-713	
PENNSYLVANIA STATE UNIVERSITY	ALEX			
ELECTRIC FUNCTIONS AND THE ELECTROMAGNETIC WAVE PROPAGATION IN STATIONARY AND MOVING DISPERSIVE MEDIA UNIV OF MISSOURI	CEFACIO	R 12 25/09/89 \$43,713	NACHMAN 89-NM-714	
A VALIDATION-BASED LANGUAGE FOR EXPERT SYSTEMS	SHENY	N 24 17/07/89 \$133,389	WAKSMAN 89-NM-651	
UNIV OF KANSAS	PRAKASH			
NONOTONE APPROXIMATE QUERY PROCESSING		N 36 08/08/89 \$255,734	WAKSMAN 89-NM-663	
UNIV OF ILLINOIS	JANE			
CONFERENCE ON THEORETICAL ASPECTS OF REASONING ABOUT KNOWLEDGE		N 01 14/08/89 \$23,500	WAKSMAN 89-NM-678	
IBM ALMADEN RESEARCH CENTER	VARDI			
PURPOSE-DRIVEN ANALOGICAL LEARNING	ADELSON	N 36 21/08/89 \$450,000	D WAKSMAN 89-NM-685	
TUFTS UNIVERSITY	BETH			
COMPUTER AND MATHEMATICAL MODELLING OF MASSIVELY PARALLEL ARCHITEC TURES FOR SELF-ORGANIZING NEURAL PATTERN RECOGNITION MACHINES ECSTON UNIVERSITY	GROSSBERG	R 24 08/09/89 \$114,390	A WAKSMAN 89-NM-699	\$100,000 01/01/90 \$210,000
REPLICA CONTROL ALGORITHMS IN DISTRIBUTED DATABASES	MUTCHLER	N 36 15/09/89 \$184,936	WAKSMAN 89-NM-701	
UNIV OF TENNESSEE	DAVID			

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IN-SYSTEMS ANALYSIS	LOUISIANA STATE UNIVERSITY	JONES	BUSH	MICHALEWICZ	N 24 21/09/89 \$122,495	WAKSMAN 89-NM-705	
OBJECT RECOGNITION IN RANGE IMAGES USING CAD DATABASES	UNIV OF MICHIGAN	JAIN	RAMESH		N 03 25/09/89 \$23,212	WAKSMAN 89-NM-715	
					N 24 27/09/89 \$367,224	WAKSMAN 89-NM-716	

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BASIC STUDIES IN PLASMA PHYSICS: STATISTICAL MECHANICS OF EQUILIBRIUM/Nonequilibrium Phenomena in Interacting Coulomb Systems FUTHERS - THE STATE UNIVERSITY	LEBOWITZ	R 24 13/07/89 \$195,145	A BARKER 89-NP-210	\$95,332 01/11/89 \$195,145
COMPETITION BETWEEN ELECTROMAGNETIC MODES IN A FREE-ELECTRON MASER		N 36 15/08/89 \$160,635	BARKER 89-NP-215	
UNIV OF SOUTHERN CALIFORNIA (ELEC ENG)	MCCURDY			
NOVEL METHODS OF ACCELERATION		R 12 16/08/89 \$210,000	BARKER 89-NP-216	
CORNELL UNIVERSITY	NATION			
INVESTIGATION OF A RELATIVISTIC KLYSTRON		N 48 18/08/89 \$953,300	BARKER 89-NP-219	
TEXAS TECH UNIVERSITY	ZIEHER			
LASER SWITCHED POWER LINAC		R 12 14/08/89 \$101,000	A BARKER 89-NP-221	\$101,000 01/01/90 \$101,000
UNIV OF ROCHESTER	MELISSINOS			
COMPUTER SIMULATION OF ALFVEN WINGS IN CONNECTED PLASMAS ACROSS MAGNETIZED PLASMAS		N 12 29/08/89 \$56,470	BARKER 89-NP-229	
UNIV OF NEW MEXICO	GALVEZ			
THEORETICAL RESEARCH ON A PLASMA CERENKOV RADIATION SOURCE		N 12 30/08/89 \$92,531	BARKER 89-NP-231	
KRALL ASSOCIATES	KRALL			
CATHODE SURFACE ANALYSIS USING RAMAN SPECTROSCOPY		N 36 31/08/89 \$379,763	BARKER 89-NP-232	
UNIV OF UTAH	GREW			
MICROWAVE INTERACTIONS WITH PLASMAS		N 24 22/09/89 \$299,960	BARKER 89-NP-241	
SPI INTERNATIONAL	ECKSTROM			
	CONRAD			

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TITLE	INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
LABORATORY EXPERIMENTS TO SIMULATE BROADBAND ABSORPTION OF RADIO WAVES IN SPACE	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	LEE	N 12 22/09/89 \$75,000	BARKER 89-NP-242	
COMPLEX SIMULATION OF COLLECTIVE ION ACCELERATION BY A RELATIVISTIC ELECTRON BEAM	UNIV OF NEW MEXICO	GALVEZ	N 12 22/09/89 \$61,471	BARKER 89-NP-243	
TOPICAL CONFERENCE ON RESEARCH TRENDS IN NON-LINEAR & RELATIVISTIC EFFECTS IN PLASMAS	LA JOLLA INSTITUTE	STEFAN	N 12 22/09/89 \$3,000	BARKER 89-NP-244	
UV LASER COOLING AND TRAPPING OF ATOMS	NATIONAL INST. OF STANDARDS & TECHNOLOGY	LUCATORIC	N 36 26/07/99 \$139,400	KELLEY 39-NP-212	
MODELLING THE EXCITATION OF MACROSCOPIC OSCILLATIONS IN F- SOURCE PLASMAS (LANL)	DEPT OF ENERGY - ALBUQUERQUE OPER OFFICE	GERWIN (LANL)	N 12 10/08/89 \$30,000	KELLEY 39-NP-214	\$90,000 01/10/89 \$90,000
CALCULATION & HALF COLLISION ANALYSIS OF STATE-TO-STATE CROSS SECTIONS IN ATOMIC COLLISIONS	NATIONAL INST. OF STANDARDS & TECHNOLOGY	JULIENNE	N 12 18/08/89 \$115,000	A KELLEY 89-NP-220	\$115,000 01/10/89 \$115,000
ZERO-ENERGY (IGNITER THRESHOLD LAW) AND LOW-ENERGY ELECTRON ATTACHMENT PHENOMENA	JOINT PROPULSION LABORATORY	CHUTJIAN	N 36 18/08/89 \$276,100	KELLEY 89-NP-222	
MOLECULAR INTERACTIONS AND PROPERTIES WITH MANY-BODY METHODS	UNIV OF FLORIDA	BARTLETT	N 12 23/08/89 \$132,420	A KELLEY 89-NP-223	\$132,420 01/12/89 \$132,420
ULTRAVIOLET EMISSION CROSS SECTIONS BY ELECTRON AND PROTON IMPACT	NASA - NATL AERONAUTICAL AND SPACE ADMIN	AJELLO	N 12 23/08/89 \$115,700	A KELLEY 89-NP-224	\$115,700 01/10/89 \$115,700

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FORMATION & ENHANCEMENT OF H(-) IONS IN A MAGNETICALLY FILTERED MULTI-CUSP ION SOURCE/MEASUREMENT OF NEUTRAL ATOMIC/MOLECULAR..... LAWRENCE BERKELEY LABORATORY	LEUNG	N 12 24/08/89 \$204,326	A KELLEY 89-NP-225	\$204,326 01/10/89 \$204,326
NEGATIVE ION SOURCE RESEARCH PROGRAM LAWRENCE LIVERMORE LAB (CALIF UNIV)	HISKES	N 12 24/08/89 \$30,000	A KELLEY 89-NP-226	\$30,000 01/10/89 \$30,000
ELECTRON IMPACT IONIZATION AND ATTACHMENT STUDIES OF MOLECULES OF INTEREST TO PULSE POWER TECHNOLOGY JET PROPULSION LABORATORY	SANTOSH	N 12 25/08/89 \$75,000	A KELLEY 89-NP-227	\$75,000 01/12/89 \$75,000
A TANDEM MICROWAVE-DRIVEN CUSP NEGATIVE ION SOURCE (UNIV OF CALIFORNIA)	EDWARD	R 12 29/08/89 \$54,000	KELLEY 89-NP-230	
NEGAT ION SOURCE RESEARCH PROGRAM LAWRENCE LIVERMORE LAB (CALIF UNIV)	HISKES	N 9 12/09/89 \$105,000	A KELLEY 89-NP-239	\$105,000 01/01/90 \$105,000
THE POLARIZATION AND MAGNETOMETRY HARVARD UNIVERSITY	CHUPP	N 24 22/09/89 \$571,390	KELLEY 89-NP-245	
PROVIDE COMPUTING SUPPORT ON WL CRAY SUPERCOMPUTER TO AFCSR CONTRACTOR, DR HARVEY MICHELS, UNITED TECHNOLOGY RESEARCH CENTER AIR FORCE WEAPONS LAB	HOWARD	N 12 27/09/89 \$10,000	A KELLEY 89-NP-246	\$10,000 01/10/89 \$10,000
INVESTIGATION OF CRUSTAL DEFORMATION IN THE VICINITY OF VANDENBERG AIR FORCE BASE MASSACHUSETTS INSTITUTE OF TECHNOLOGY	KING	N 36 01/09/89 \$473,770	PERRIZO 89-NP-233	
COMMISSION ON PHYSICAL SCIENCES, MATHEMATICS AND RESOURCES (COMMITTEE ON SEISMOLOGY) NATIONAL ACADEMY OF SCIENCES	LONG	N 12 11/09/89 \$15,000	PERRIZO 89-NP-237	

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COMMISSION ON PHYSICAL SCIENCES, MATHEMATICS, AND RESOURCES (COMMITTEE ON GEODESY) NATIONAL ACADEMY OF SCIENCES	LONG	N 09 11/09/89 \$15,000	PERRIZO 99-NP-238	
IMBITTING THE PHOTOGRADATION OF LASER EYES BY MOLECULAR EN: SULATION ER: UNIVERSITY	LAWANDY	N 12 13/07/89 \$145,687	SCHLOSSBER 89-NP-211	
RESEARCH SUPPORT FOR THE LABRATORY FOR LIGHTWAVE TECHNOLOGY				
ERCHN UNIVERSITY	MORSE	N 36 27/07/89 \$640,200	A SCHLOSSBER 89-NP-213	\$185,000 01/01/90 \$555,000
GENERATION OF COHERENT ACOUSTIC WAVES IN THE THZ RANGE				
UNIV OF NEW MEXICO	LIELS	N 36 16/08/89 \$346,630	SCHLOSSBER 89-NP-217	
SYNTHETIC NONLINEAR MEDIA FOR OPTICAL FREQUENCY CONVERSION				
STANFORD UNIVERSITY	FEJER	N 36 18/08/89 \$759,203	SCHLOSSBER 89-NP-218	
RESEARCH STUDIES ON EXTREME ULTRAVIOLET AND SOFT X-RAY LASERS				
STANFORD UNIVERSITY	HARRIS	R 24 29/08/89 \$215,390	SCHLOSSBER 89-NP-228	
LABORATORY FOR X-RAY OPTICS				
UNIV OF ARIZONA	FALCC	N 36 01/09/89 \$1,555,000	A SCHLOSSBER 89-NP-234	\$215,000 01/10/89 \$702,000
HIGH PRECISION SOFT X-RAY OPTICS				
LAWRENCE BERKELEY LABRATORY	ATTWCCG	N 06 14/09/89 \$17,500	A SCHLOSSBER 89-NP-240	\$17,550 15/09/89 \$17,550